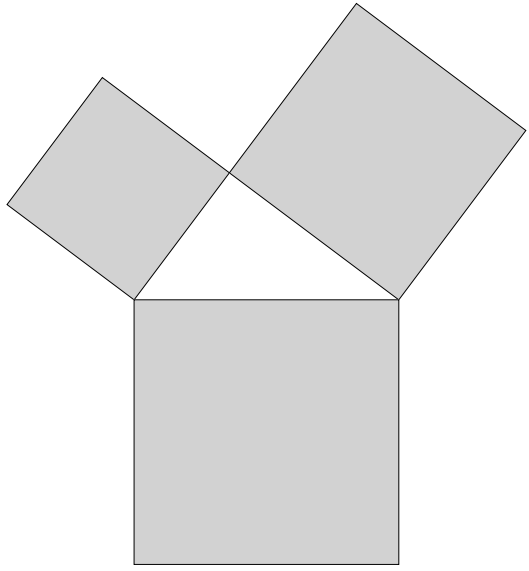
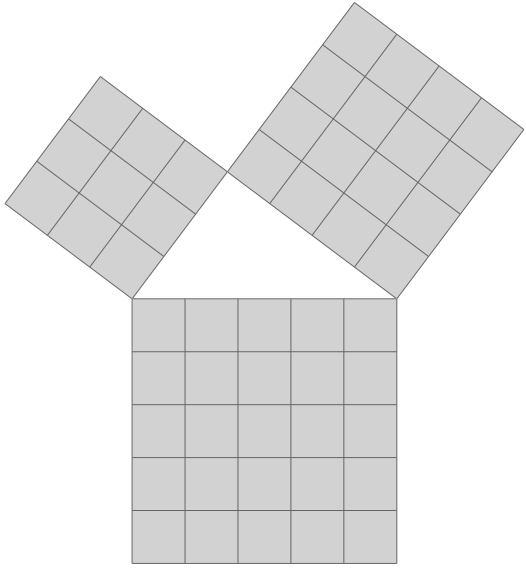
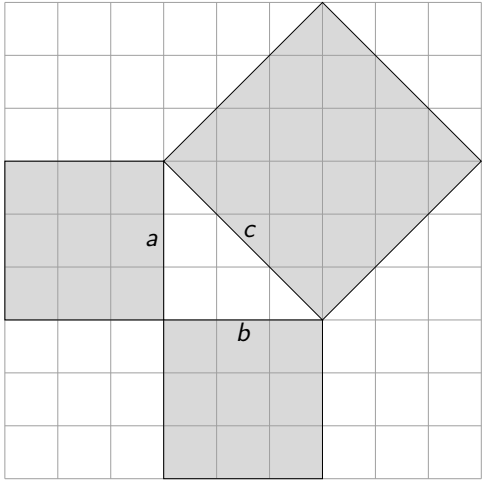
Pythagoras $c^2 = a^2 + b^2$ direkt einsehbar

groolfs.de



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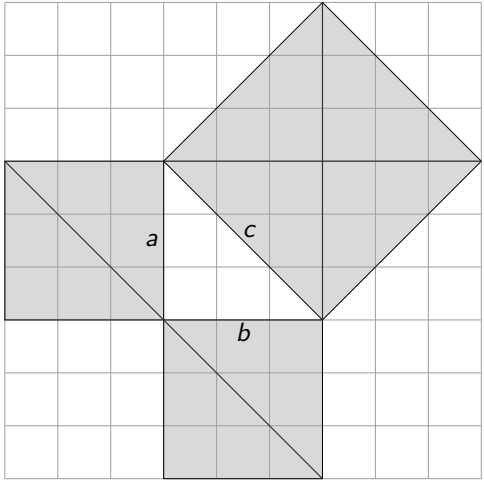
c
b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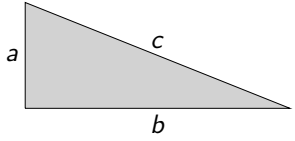
b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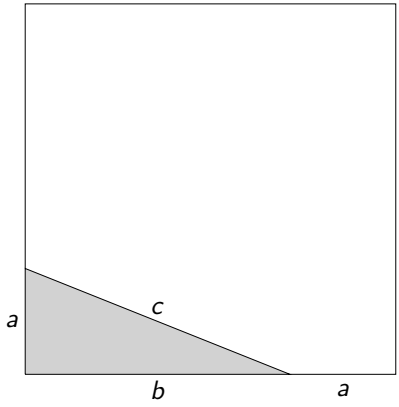
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b
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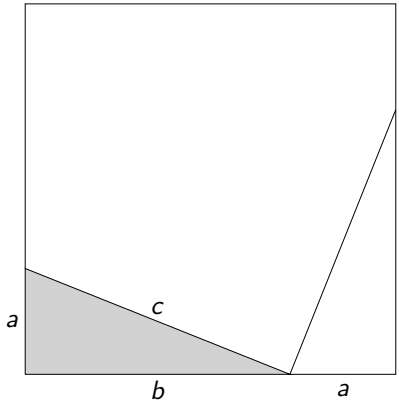
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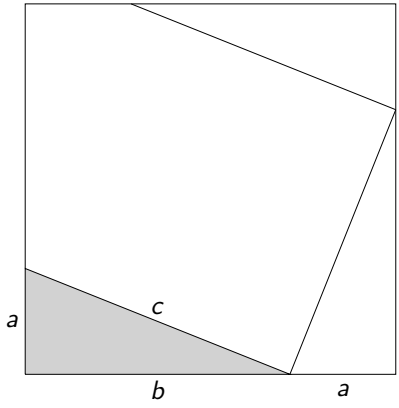
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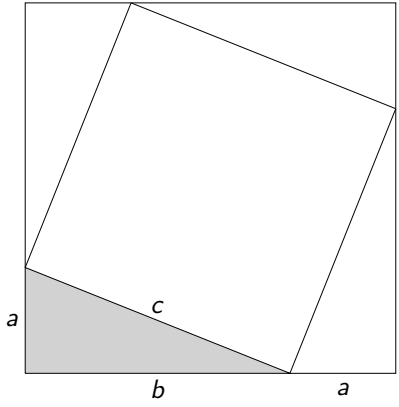
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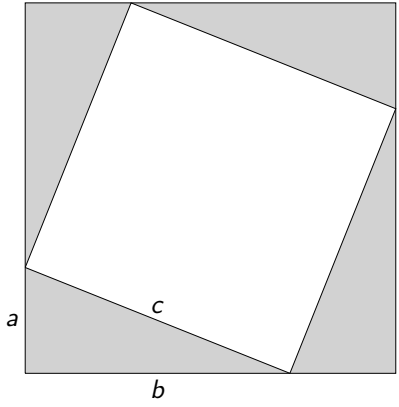
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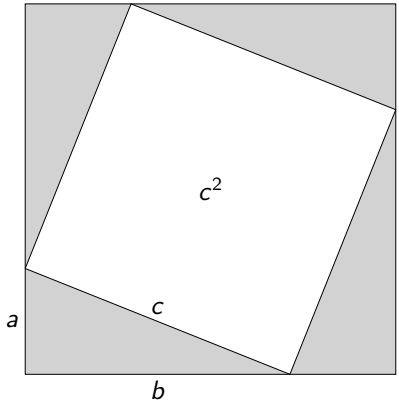
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c
a
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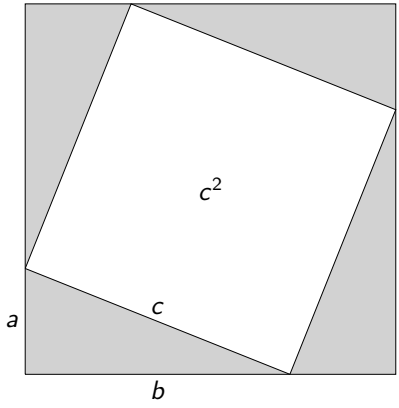
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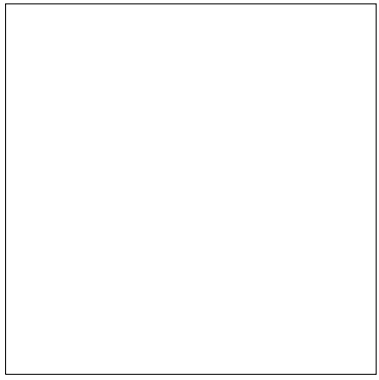

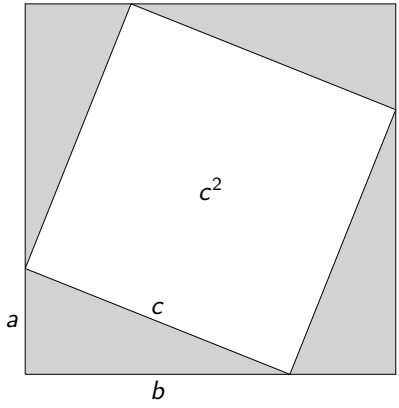
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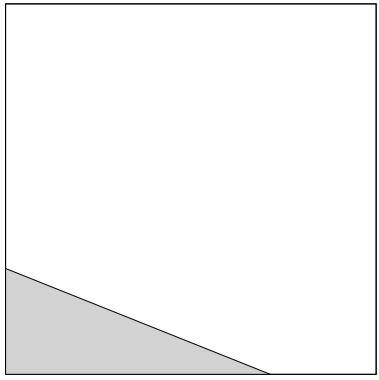

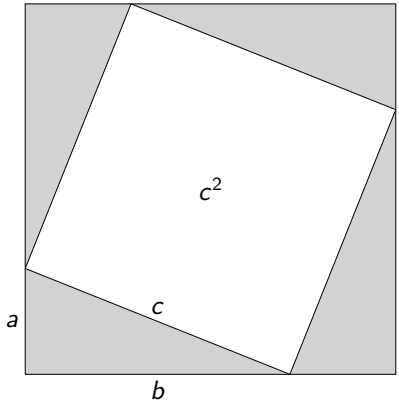
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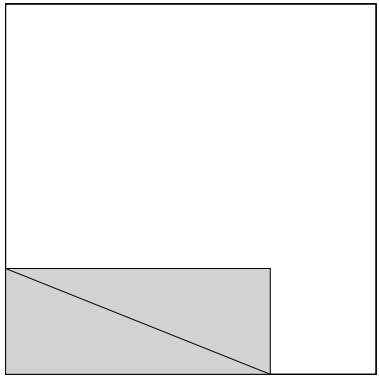

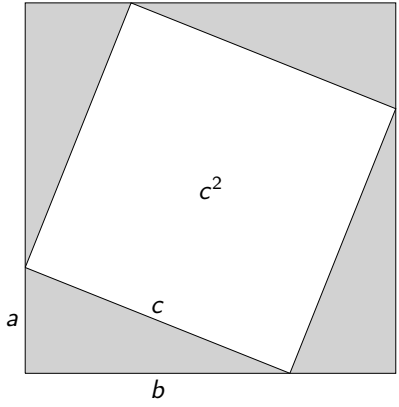
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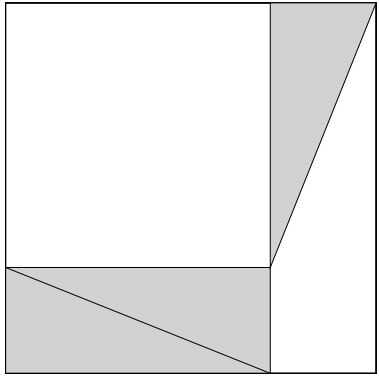

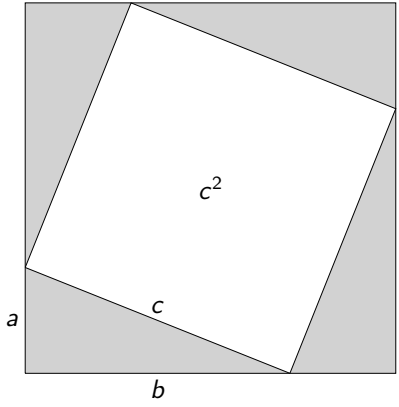
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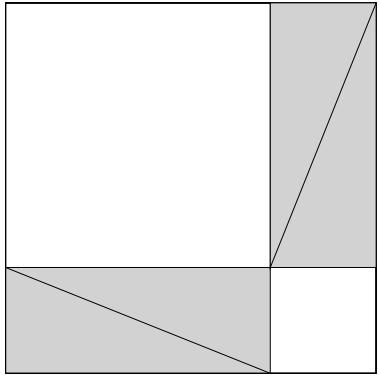

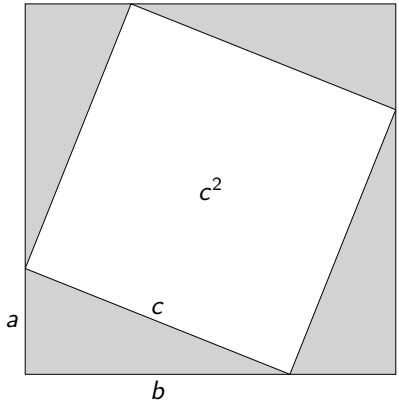
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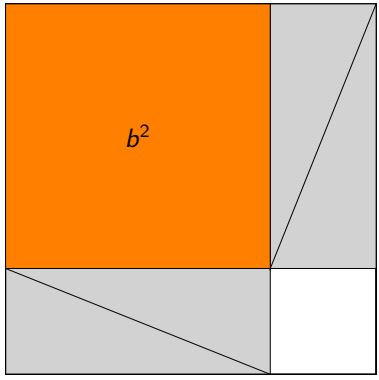
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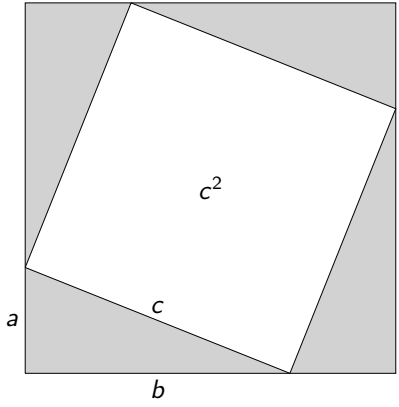
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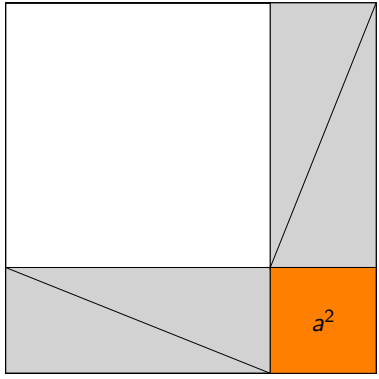
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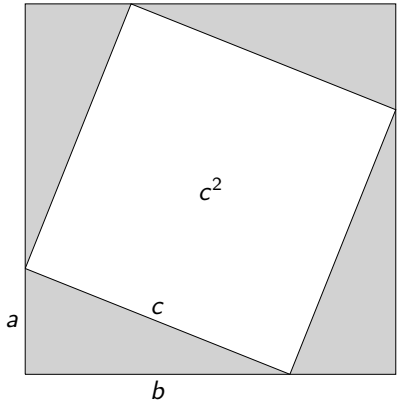
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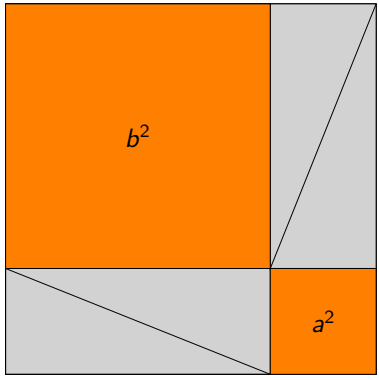
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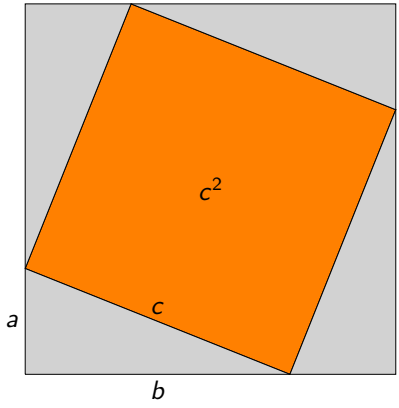
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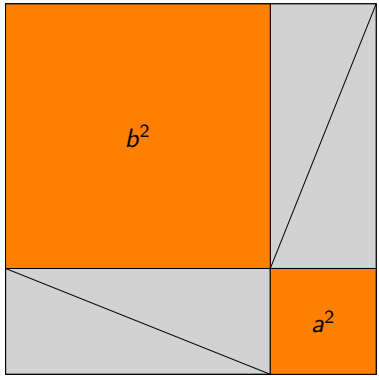
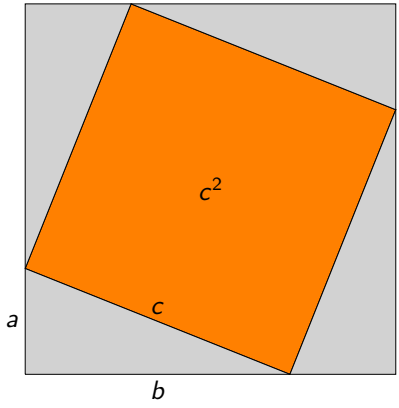
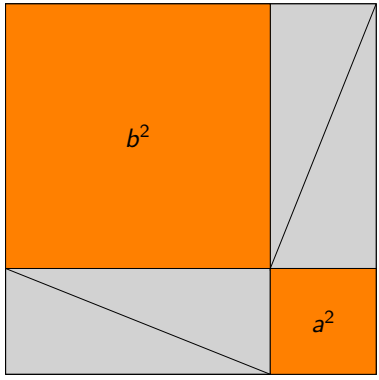
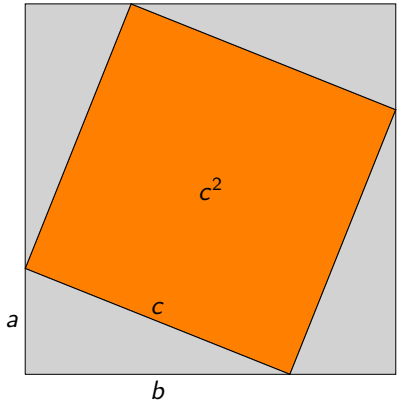
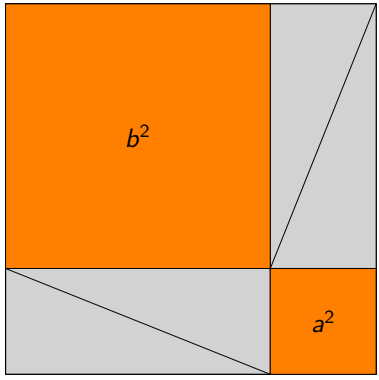

b^2
a^2



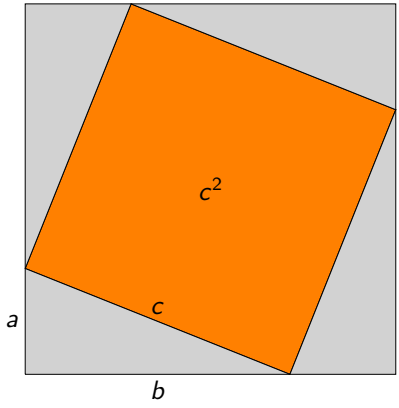


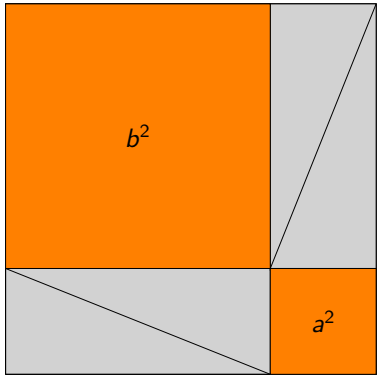
$$\square - 4 \cdot \triangle = c^2$$



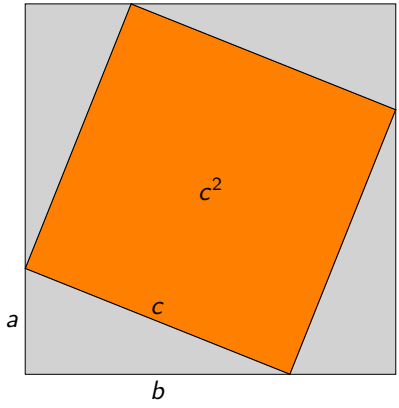


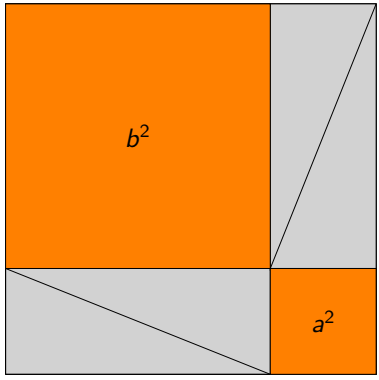
$$\square - 4 \cdot \triangle = a^2 + b^2$$



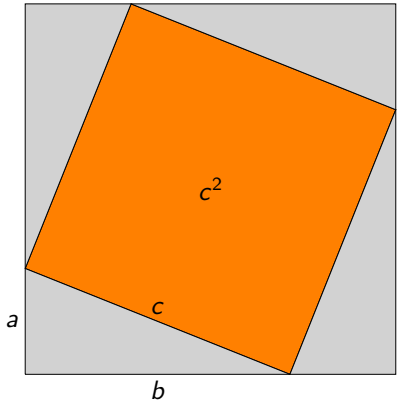


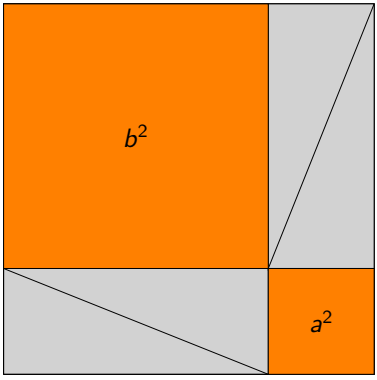
$$\square - 4 \cdot \triangle = c^2$$





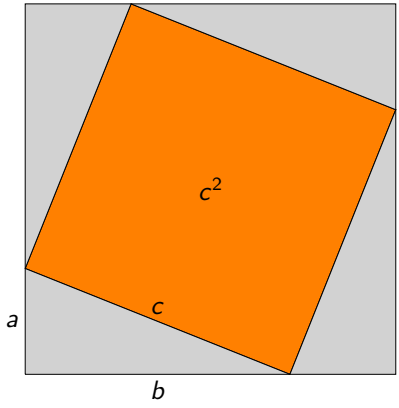
$$\square - 4 \cdot \triangle = a^2 + b^2$$

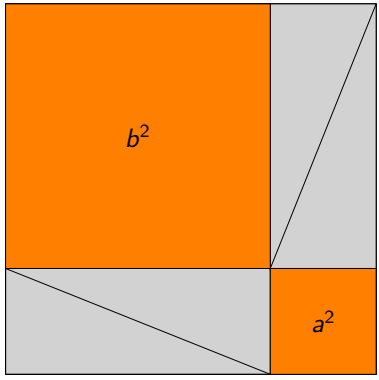




$$\square - 4 \cdot \triangle = a^2 + b^2$$

$$\Longrightarrow$$

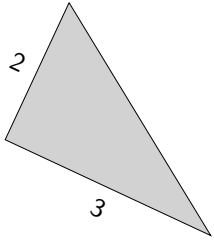




$$\square - 4 \cdot \triangle = a^2 + b^2$$

$$\implies a^2 + b^2 = c^2$$

a)



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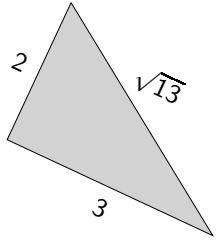
a)



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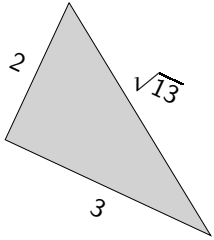
a)



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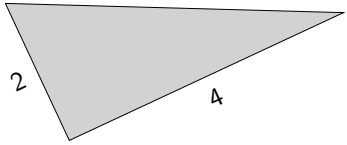
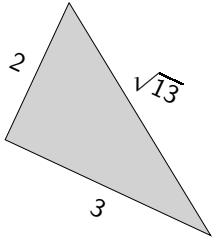


a)



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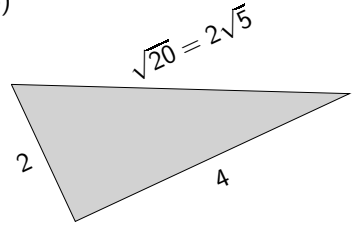

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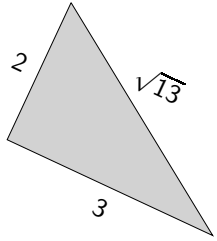

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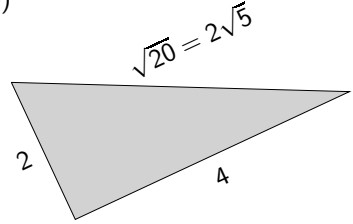

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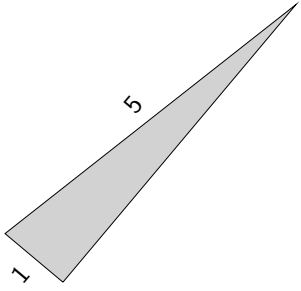

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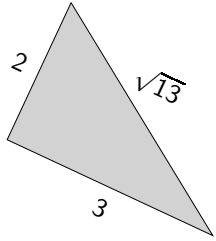

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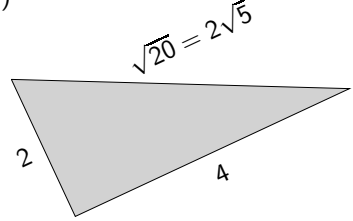

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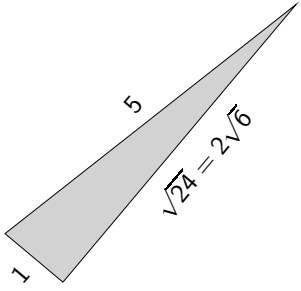

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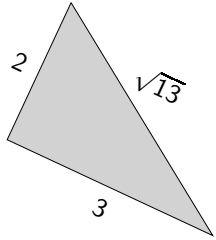

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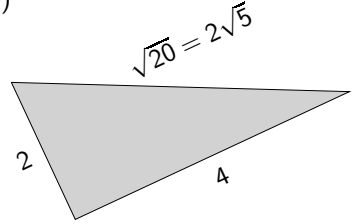

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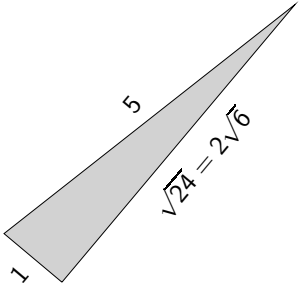

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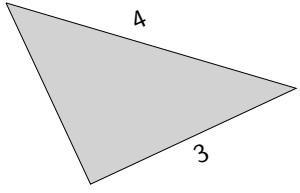
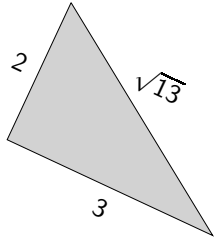


a)



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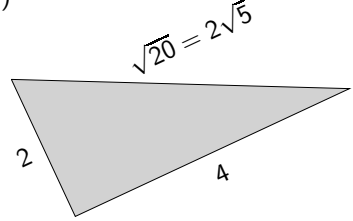
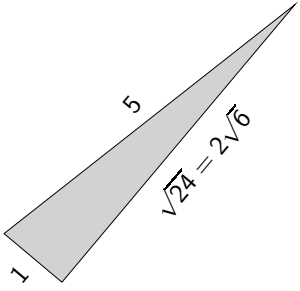


c)



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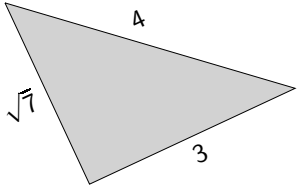

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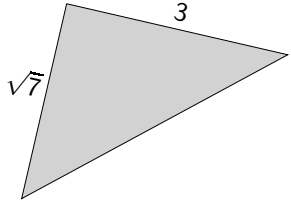

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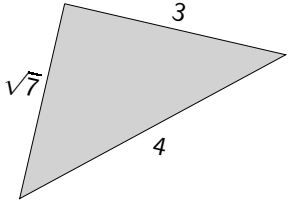

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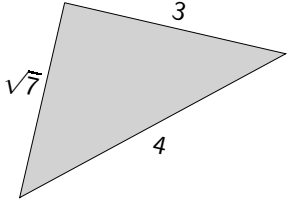

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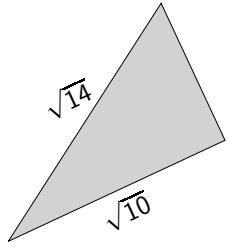

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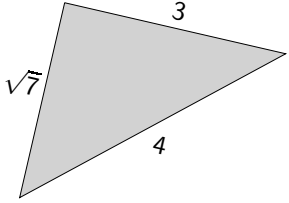

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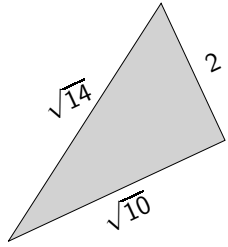
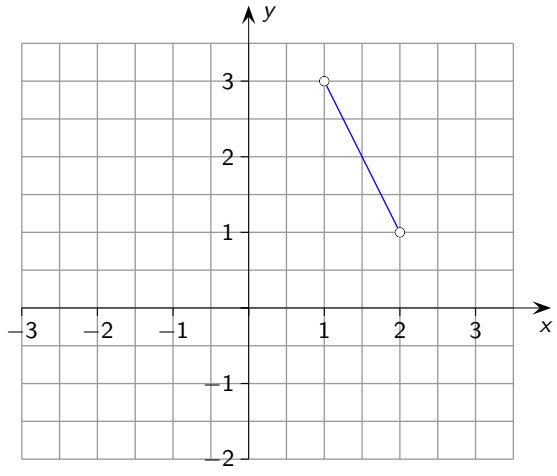
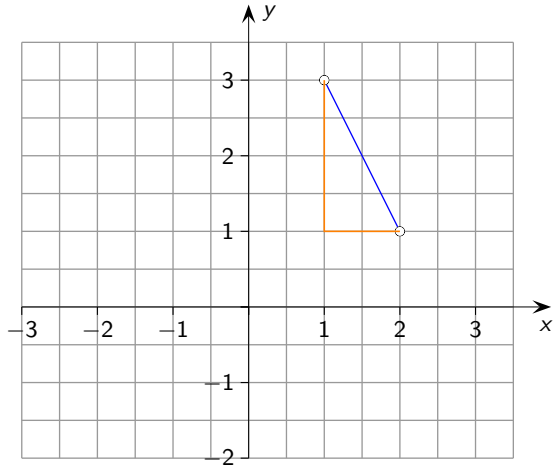




Ermittle die Länge der blau gefärbten Strecke.



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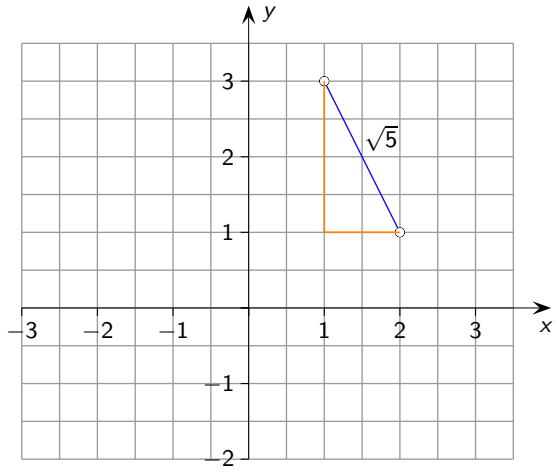

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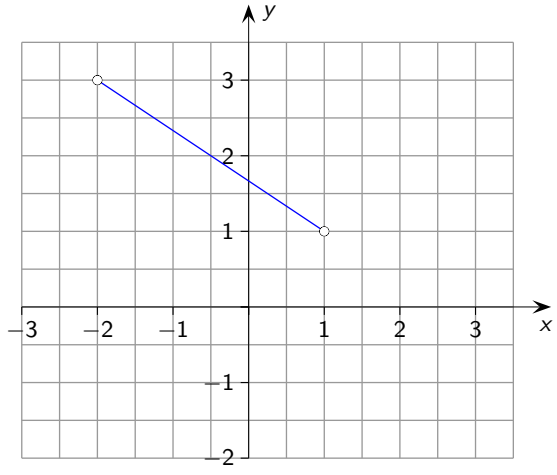

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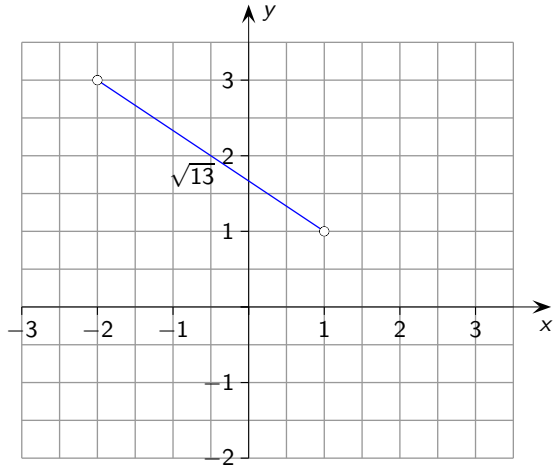

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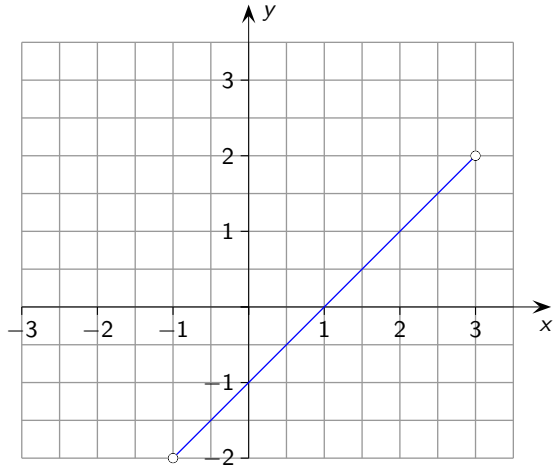

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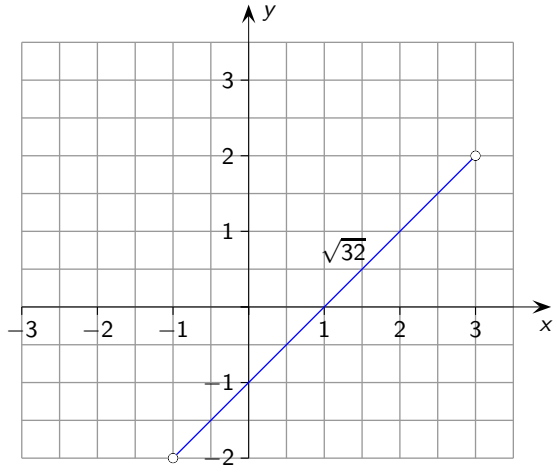

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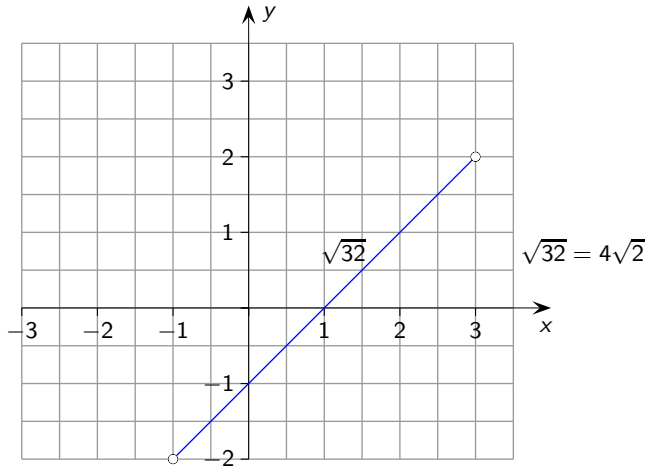

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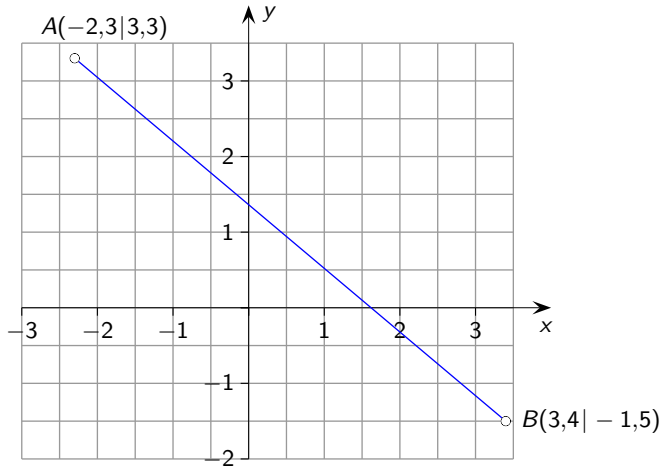

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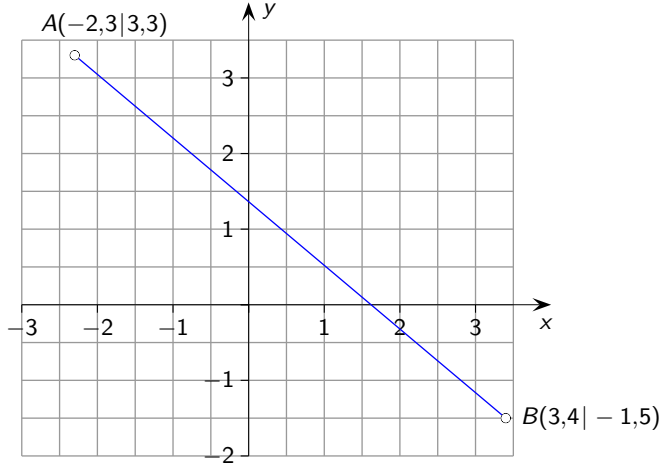
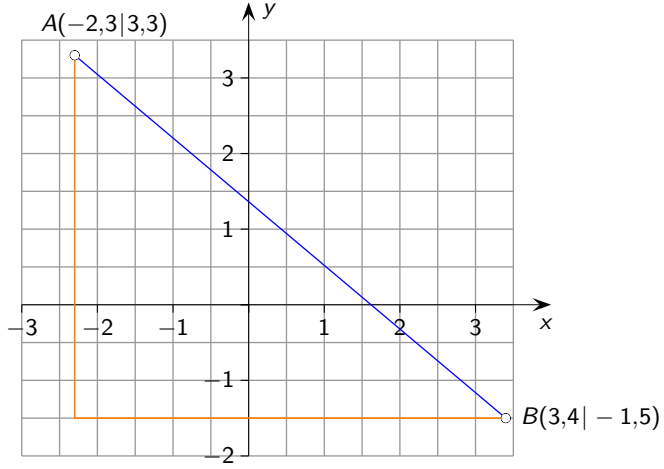
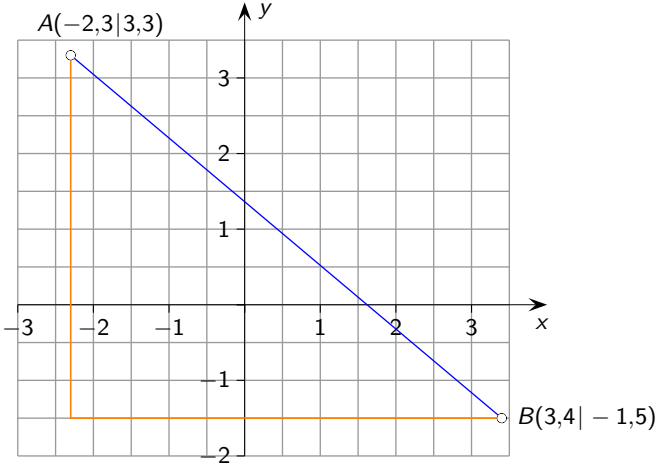


$A(x_1|y_1),\ B(x_2|y_2)$

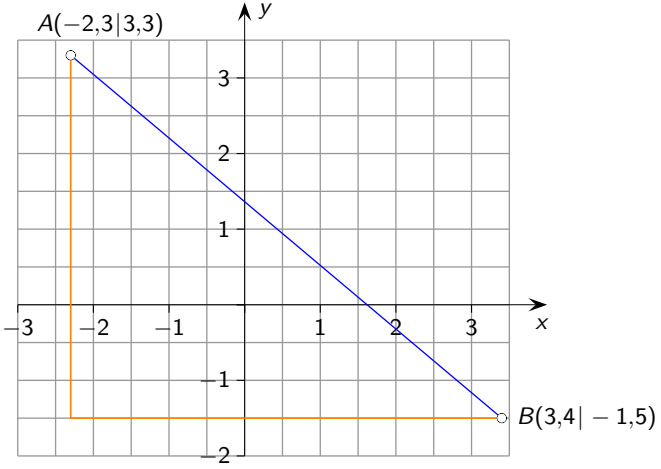


$A(x_1|y_1),\ B(x_2|y_2)$



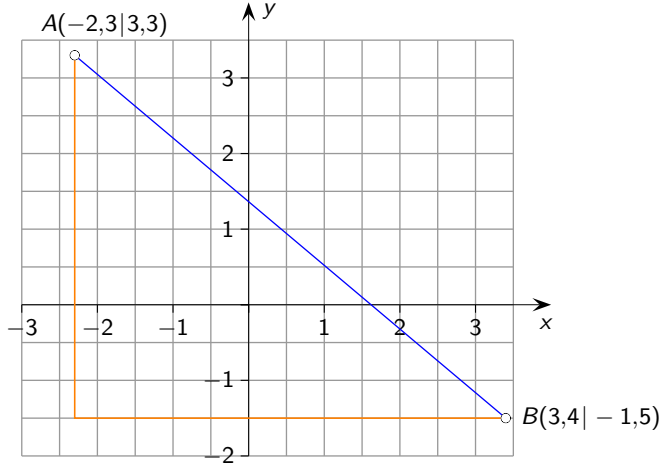
$A(x_1|y_1),\ B(x_2|y_2)$

$d = \sqrt{(y_2 - y_1)^2 + (x_2 - x_1)^2}$



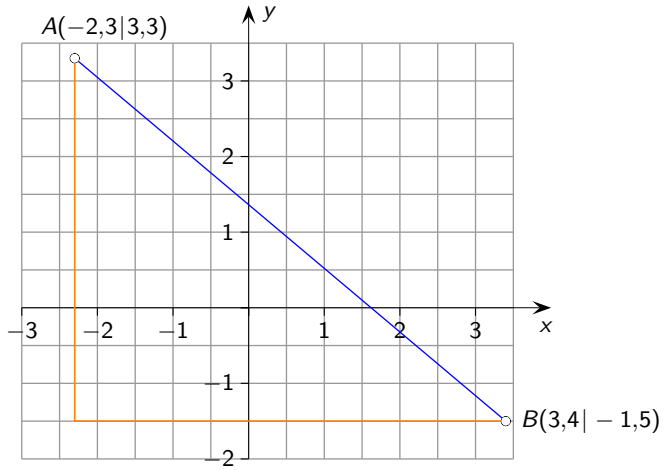
$A(x_1|y_1),\ B(x_2|y_2)$

$d = \sqrt{(y_2 - y_1)^2 + (x_2 - x_1)^2} \approx 7{,}452$



$A(x_1|y_1),\ B(x_2|y_2)$

$$d = \sqrt{(y_2 - y_1)^2 + (x_2 - x_1)^2} = \sqrt{(y_1 - y_2)^2 + (x_1 - x_2)^2}$$



$A(x_1|y_1),\ B(x_2|y_2)$

$$d = \sqrt{(y_2 - y_1)^2 + (x_2 - x_1)^2} = \sqrt{(y_1 - y_2)^2 + (x_1 - x_2)^2}$$

Die Reihenfolge ist ohne Belang, es kommt nur auf den Abstand an.