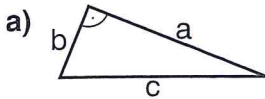
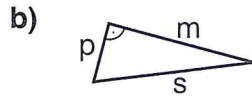


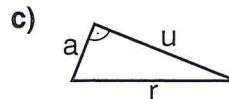


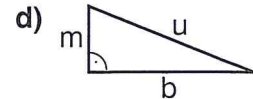
Testaufgaben (1)

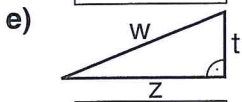
1. Notiere unter jedem Dreieck die Gleichung nach dem Satz des Pythagoras.

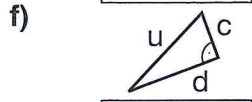


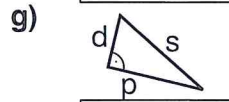


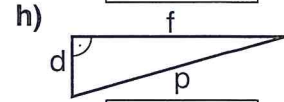




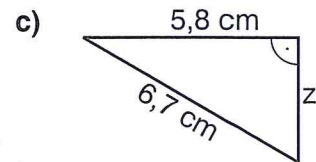
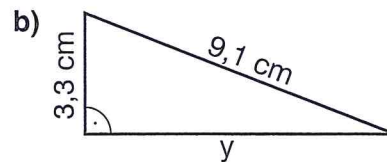
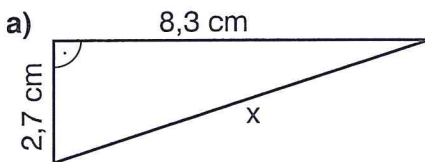








2. Berechne die gesuchte Strecke.



3. Berechne die fehlende Seitenlänge des Dreiecks, wenn

a) $\gamma = 90^\circ$

$a = 2,8 \text{ cm}$

$c = 7,5 \text{ cm}$

b) $\gamma = 90^\circ$

$b = 5,6 \text{ cm}$

$c = 6,5 \text{ cm}$

c) $\beta = 90^\circ$

$c = 6,3 \text{ cm}$

$b = 12,5 \text{ cm}$

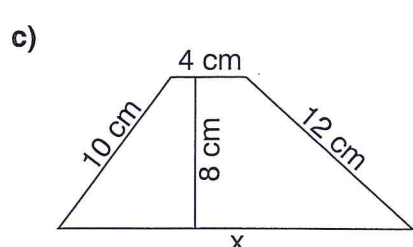
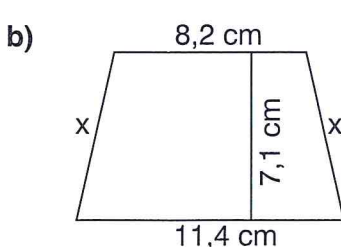
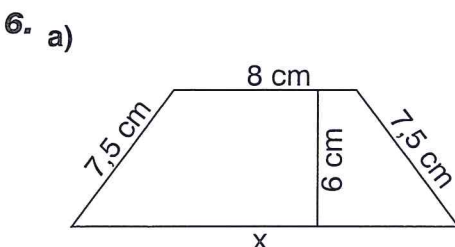
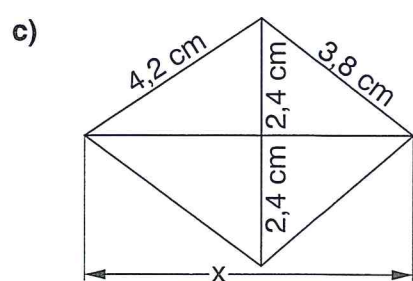
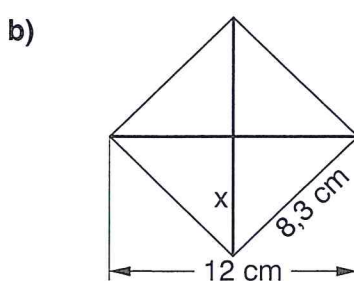
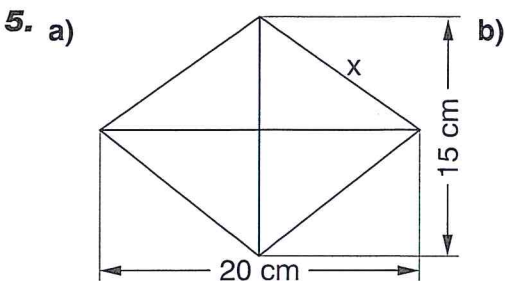
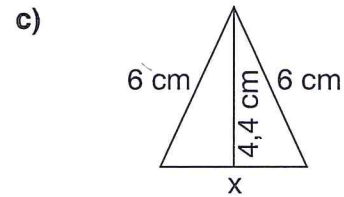
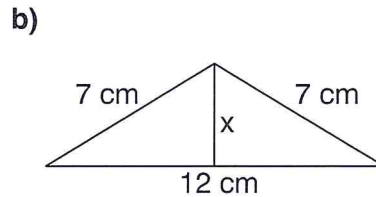
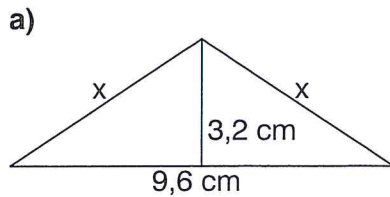
d) $\alpha = 90^\circ$

$a = 9,5 \text{ cm}$

$b = 3,6 \text{ cm}$

5

4. Berechne die Streckenlänge x.





Kommentare und Lösungen zu den Testaufgaben

Testaufgaben (1)

- | | | | |
|---|--|--|--|
| 1. a) $a^2 + b^2 = c^2$
e) $t^2 + z^2 = w^2$ | b) $m^2 + p^2 = s^2$
f) $c^2 + d^2 = u^2$ | c) $a^2 + u^2 = r^2$
g) $d^2 + p^2 = s^2$ | d) $b^2 + m^2 = k^2$
h) $f^2 + d^2 = p^2$ |
| 2. a) $x = 8,728 \text{ cm}$ | b) $y = 8,481 \text{ cm}$ | c) $z = 3,354 \text{ cm}$ | |
| 3. a) $b = 6,96 \text{ cm}$ | b) $a = 3,3 \text{ cm}$ | c) $a = 10,79 \text{ cm}$ | d) $c = 8,79 \text{ cm}$ |
| 4. a) $x = 5,77 \text{ cm}$ | b) $x = 3,61 \text{ cm}$ | c) $x = 8,16 \text{ cm}$ | |
| 5. a) $x = 12,5 \text{ cm}$ | b) $x = 5,73 \text{ cm}$ | c) $x = 6,4 \text{ cm}$ | |
| 6. a) $x = 17 \text{ cm}$ | b) $x = 7,28 \text{ cm}$ | c) $x = 18,94 \text{ cm}$ | |

Testaufgaben (2)

- | | | | |
|---------------------------|--|-----------------------|--|
| 1. $e = 12,02 \text{ cm}$ | 2. $a = 3,25 \text{ cm}$ | $u = 13 \text{ cm}$ | $A = 10,56 \text{ cm}^2$ |
| 3. $e = 10,46 \text{ cm}$ | 4. $b = 7,75 \text{ cm}$ | $u = 27,5 \text{ cm}$ | $A = 46,5 \text{ cm}^2$ |
| 5. $h = 4,33 \text{ cm}$ | 6. $h = 4,76 \text{ cm}; A = 78,54 \text{ cm}^2$ | | 7. $a = 2,31 \text{ cm}; V = 12,32 \text{ cm}^3$ |
| 8. a) $6,32 \text{ cm}$ | $5,36 \text{ cm}$ | $3,83 \text{ cm}$ | b) $6,45 \text{ cm}$ |
9. 442,1 m muss das Seil mindestens lang sein (genau: 442,04...).
10. 66,14 m ist der Drachen hoch.
11. 9,8 m entfernt schlägt die Spitze auf den Erdboden.
12. 12,69 m war die Fichte hoch.
13. 18,06 m ist das Gewässer an der Verankerung tief.