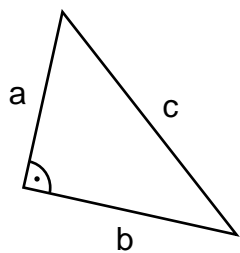
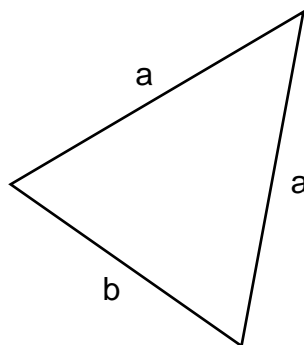


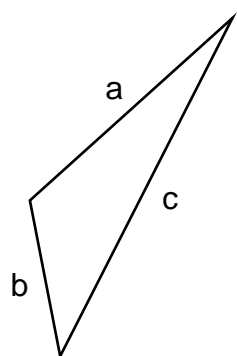
1. Beschreibe die Dreiecke möglichst genau mit den richtigen Fachausdrücken.



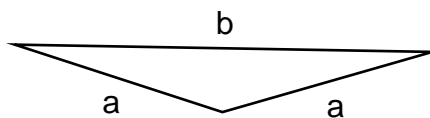
rechtwinklig



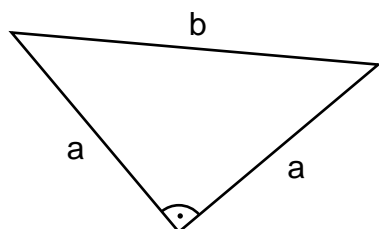
gleichschenkelig-spitzwinklig



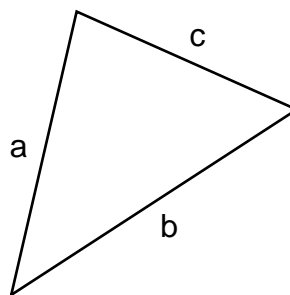
stumpfwinklig



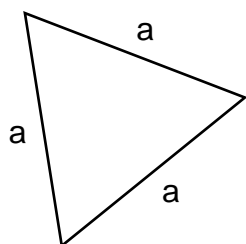
gleichschenkelig-stumpfwinklig



gleichschenkelig-rechtwinklig



spitzwinklig



gleichseitig

2. (a) $\gamma = 180^\circ - \alpha - \beta = 180^\circ - 30^\circ - 40^\circ = 110^\circ$
 (b) $\alpha = 180^\circ - \beta - \gamma = 180^\circ - 58^\circ - 67^\circ = 55^\circ$
 (c) $\beta = 180^\circ - \alpha - \gamma = 180^\circ - 33^\circ - 103^\circ = 44^\circ$
 (d) $\gamma = 180^\circ - \alpha - \beta = 180^\circ - 35^\circ - 55^\circ = 90^\circ$
3. (a) $\omega = 180^\circ - 90^\circ - 41^\circ = 49^\circ$
 (b) $\beta = 180^\circ - 63^\circ - 75^\circ = 42^\circ$
 (c) $\beta = 180^\circ - 62^\circ - (180^\circ - 142^\circ) = 180^\circ - 62^\circ - 38^\circ = 80^\circ$
4. (a)
 - $\beta = 70^\circ$
 - $\gamma = 180^\circ - 70^\circ - 70^\circ = 40^\circ$
- (b)
 - $\alpha = 38^\circ$
 - $\gamma = 180^\circ - 38^\circ - 38^\circ = 106^\circ$
- (c)
 - $\alpha = \beta = (180^\circ - 44^\circ)/2 = 68^\circ$
- (d)
 - $\alpha = \beta = (180^\circ - 90^\circ)/2 = 45^\circ$
- (e)
 - $\alpha = \beta = 90^\circ$
 - $\gamma = 180^\circ - \alpha - \beta = 180^\circ - 90^\circ - 90^\circ = 0^\circ$
5. $\alpha + 2\alpha + 3\alpha = 180^\circ$
 $6\alpha = 180^\circ$
 $\alpha = 30^\circ$
6. (a)
 - $\beta = 59^\circ$ (gleichschenkliges Dreieck)
 - $\gamma = 180^\circ - \alpha - \beta = 180^\circ - 59^\circ - 59^\circ = 62^\circ$
- (b)
 - $\delta = (360^\circ - 242^\circ)/2 = 118^\circ/2 = 59^\circ$
 - $\omega = 180^\circ - \delta = 180^\circ - 59^\circ = 121^\circ$
- (c)
 - $\alpha = 180^\circ - 90^\circ - 79^\circ = 11^\circ$
 - $\delta = 180^\circ - 65^\circ - 79^\circ = 36^\circ$
 - $\beta = 180^\circ - 90^\circ - 36^\circ = 54^\circ$
- (d)
 - $\beta = 180^\circ - 28^\circ - 28^\circ = 124^\circ$
 - $\alpha = \varepsilon = 90^\circ - 28^\circ = 62^\circ$
- (e)
 - $\delta = 180^\circ - 90^\circ - 15^\circ = 75^\circ$
 - $\varepsilon = 180^\circ - 90^\circ - \delta = 180^\circ - 90^\circ - 75^\circ = 15^\circ$
 - $\omega = 180^\circ - 90^\circ - (15^\circ + 41^\circ) = 34^\circ$