

MFS

(21) - (24)

$$\sin A = \frac{a}{c}$$

$$\cos A = \frac{b}{c}$$

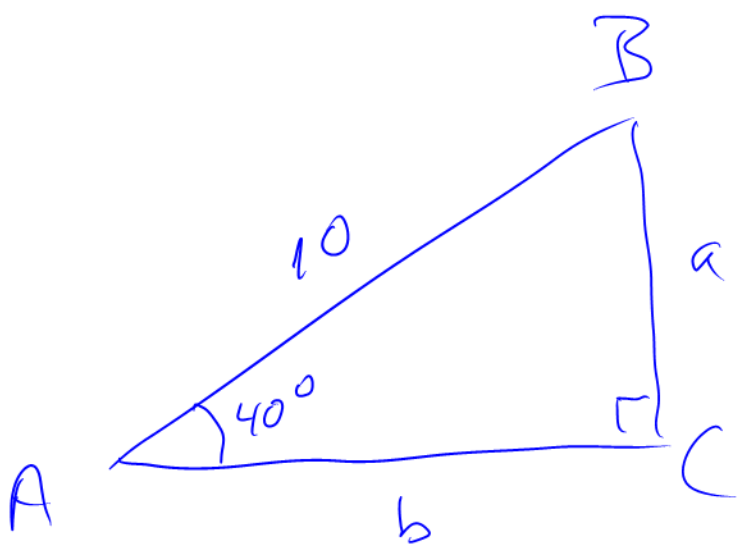
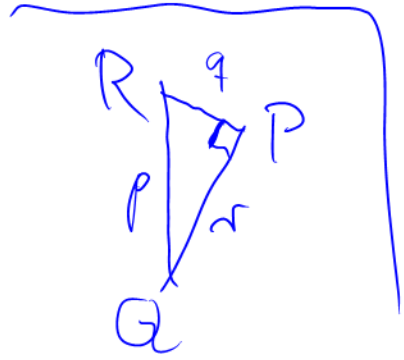
$$\tan A = \frac{a}{b}$$

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

$$a = c \cdot \sin A$$

$$b = c \cdot \cos A$$

$$b = a \cdot \tan A$$

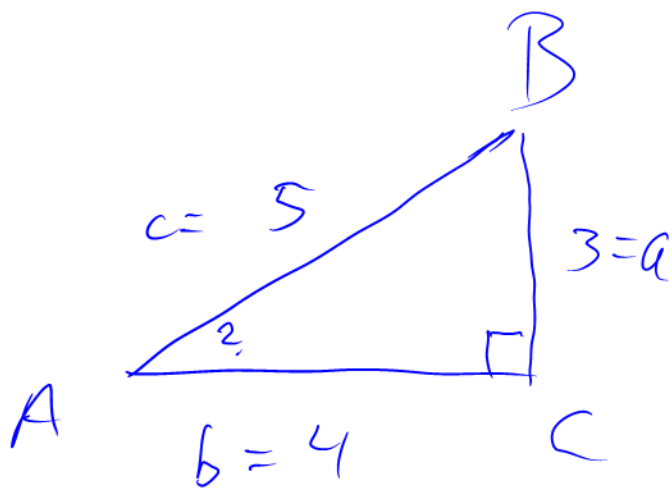


$$a = c \cdot \sin(A) = 10 \cdot \sin(40^\circ)$$

$$a = 6,43$$

$$b = c \cdot \cos(A) = 10 \cdot \cos(40^\circ)$$

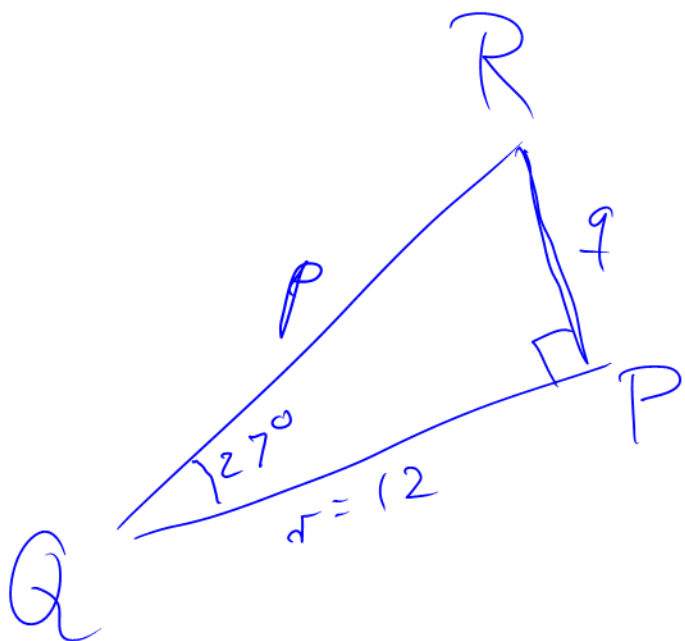
$$b = 7,66$$



$$\cos(A) = \frac{b}{c} = \frac{4}{5} (= 0,8)$$

$$A = \cos^{-1}\left(\frac{4}{5}\right)$$

$$A = 36,9^\circ$$



$$\cos Q = \frac{r}{p}$$

$$p \cos Q = r$$

$$p = \frac{r}{\cos Q} = \frac{12}{\cos 27^\circ} = 13,47$$

$$p = 13,47$$

$$q = p \cdot \sin(Q) = 13,47 \cdot \sin(27^\circ) = 6,11$$

$$\tan Q = \frac{q}{r}$$

$$q = r \cdot \tan Q = 12 \cdot \tan 27^\circ = \underline{\underline{6,11}}$$

$$\underline{\underline{q = 6,11}}$$