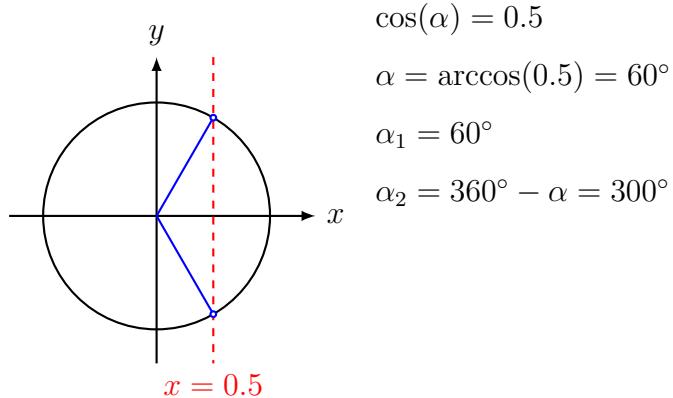
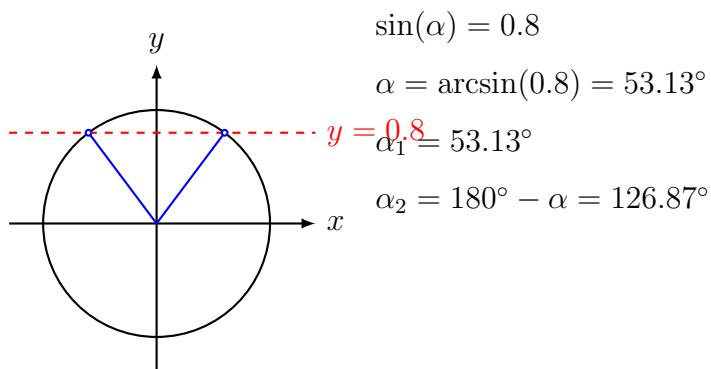
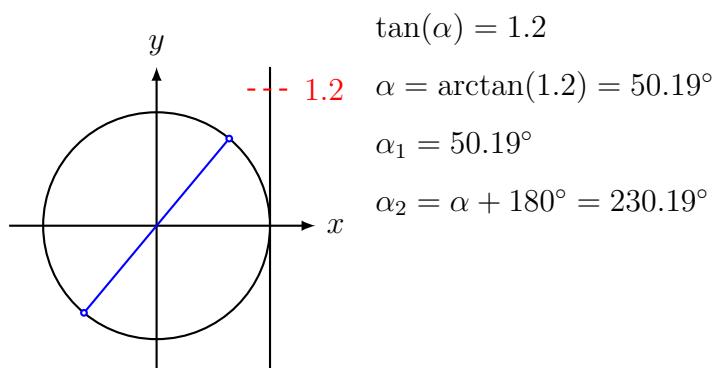
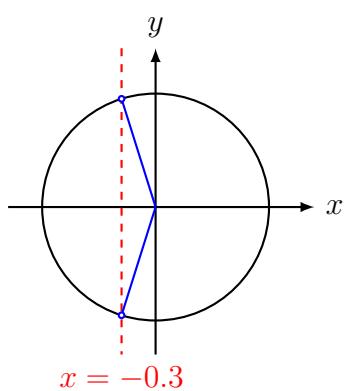


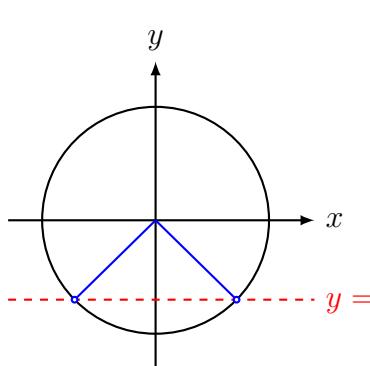
Aufgabe 1**Aufgabe 2****Aufgabe 3**

Aufgabe 4



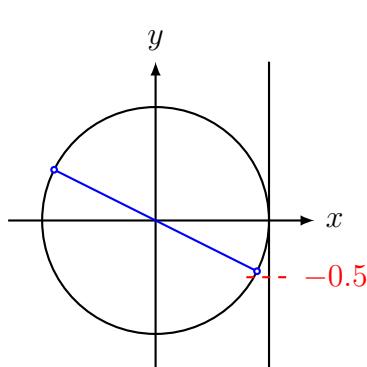
$$\begin{aligned}\cos(\alpha) &= -0.3 \\ \alpha &= \arccos(-0.3) = 107.46^\circ \\ \alpha_1 &= 107.46^\circ \\ \alpha_2 &= 360^\circ - \alpha = 252.54^\circ\end{aligned}$$

Aufgabe 5



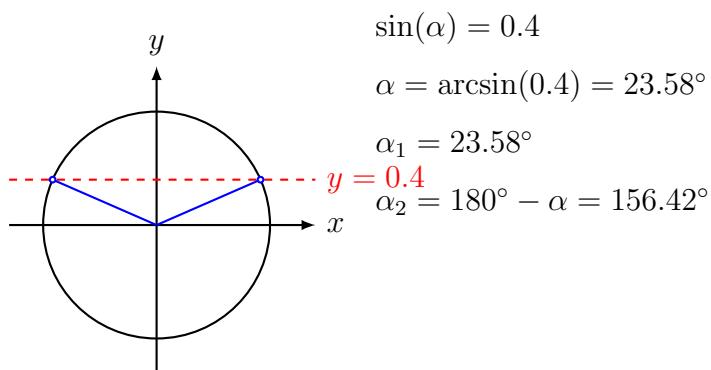
$$\begin{aligned}\sin(\alpha) &= -0.7 \\ \alpha &= \arcsin(-0.7) = -44.43^\circ \\ \alpha_1 &= \alpha + 360^\circ = 315.57^\circ \\ \alpha_2 &= 180^\circ - \alpha = 224.43^\circ\end{aligned}$$

Aufgabe 6

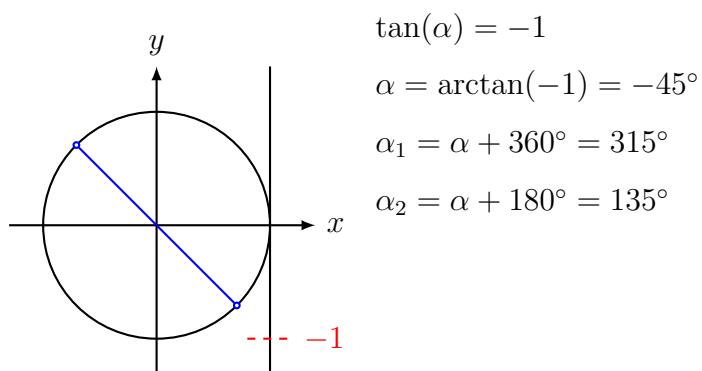


$$\begin{aligned}\tan(\alpha) &= -0.5 \\ \alpha &= \arctan(-0.5) = -26.57^\circ \\ \alpha_1 &= \alpha + 360^\circ = 333.43^\circ \\ \alpha_2 &= \alpha + 180^\circ = 153.43^\circ\end{aligned}$$

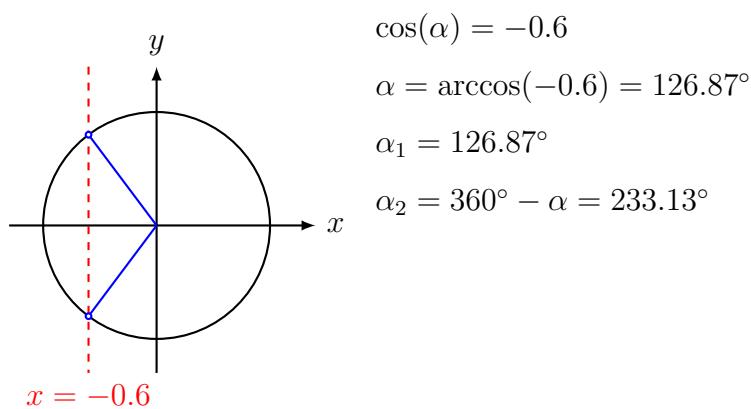
Aufgabe 7



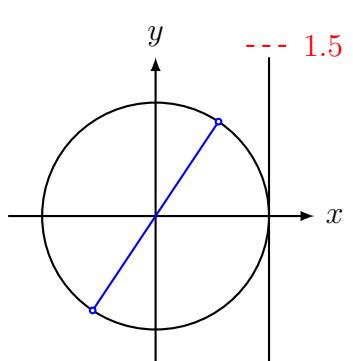
Aufgabe 8



Aufgabe 9

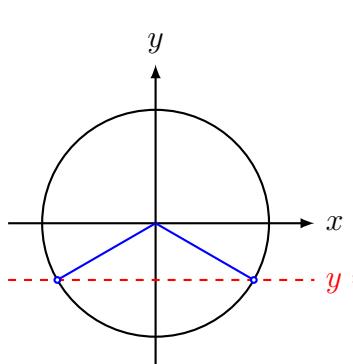


Aufgabe 10



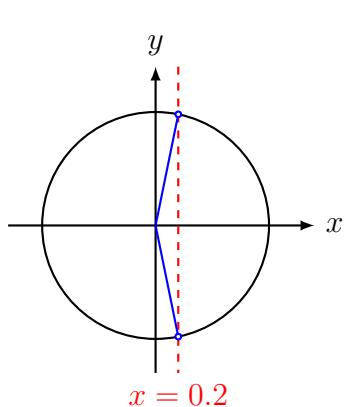
$$\begin{aligned}\tan(\alpha) &= 1.5 \\ \alpha &= \arctan(1.5) = 56.31^\circ \\ \alpha_1 &= 56.31^\circ \\ \alpha_2 &= \alpha + 180^\circ = 236.31^\circ\end{aligned}$$

Aufgabe 11



$$\begin{aligned}\sin(\alpha) &= -0.5 \\ \alpha &= \arcsin(-0.5) = -30^\circ \\ \alpha_1 &= \alpha + 360^\circ = 330^\circ \\ \alpha_2 &= 180^\circ - \alpha = 210^\circ\end{aligned}$$

Aufgabe 12



$$\begin{aligned}\cos(\alpha) &= 0.2 \\ \alpha &= \arccos(0.2) = 78.46^\circ \\ \alpha_1 &= 78.46^\circ \\ \alpha_2 &= 360^\circ - \alpha = 281.54^\circ\end{aligned}$$