HW1-4)

This is a little different from the examples in that we don't know both components or the magnitude and direction, but rather one of each: $A_y = 12.0$ and $\theta_A = 127^o$.

$$A_y = A\sin\theta_A \quad \rightarrow \quad A = \frac{A_y}{\sin\theta_A} = \frac{12.0}{\sin(127^o)} = \frac{12}{0.800} = 15.0 \ .$$

$$A_x = A\cos\theta_A = 15\cos(127^o) = 15 \times (-0.6) = -9.0 \ .$$