

HW1-4 Soln)

$$\theta = 127^\circ \quad \text{and} \quad A_y = 12$$

$$A_y = A \sin\theta \rightarrow A = A_y / \sin\theta = 12 / \sin(127^\circ) = 15 \text{ units}$$

$$A_x = A \cos\theta = 15 \cos(127^\circ) = -9 \text{ units}$$