1. Find the value of sine, cosine and tangent for the angle θ:

   a.

   $$6$$
   $$\theta$$
   $$-2$$
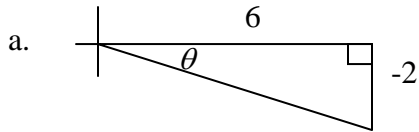
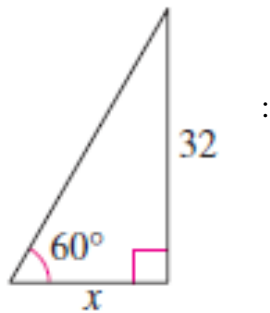   b. $\csc(\theta) = \dfrac{5}{2}$

2. Suppose $\cot(\theta) = 4$. Find the following:

   a. $\tan(\theta)$ b. $\sin(\theta)$ c. $\cos\left(\dfrac{\pi}{2} - \theta\right)$ (Hint: See Page 226)
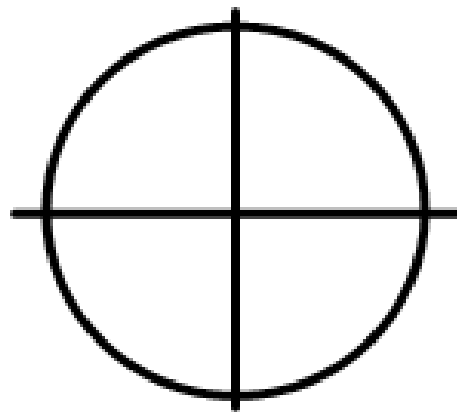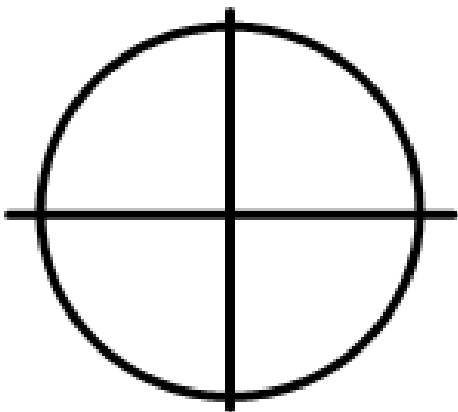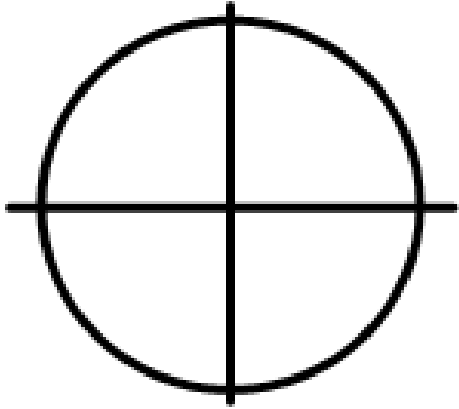
3. Solve for x :

   $$32$$
   $$60°$$
   $$x$$

4. Find the reference angle, θ', sketch θ and θ' in standard position, then evaluate $\sin(\theta), \cos(\theta)$, and $\tan(\theta)$. You shouldn't need a calculator.
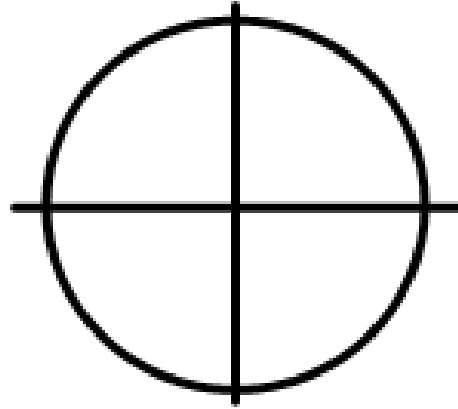
   a. $\theta = 225^0$ b. $\theta = -840^0$

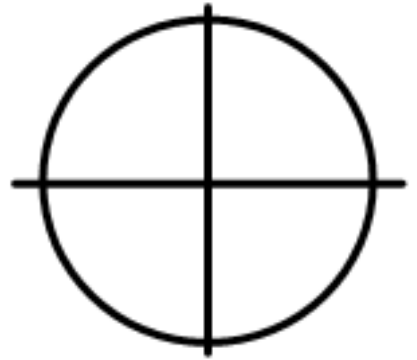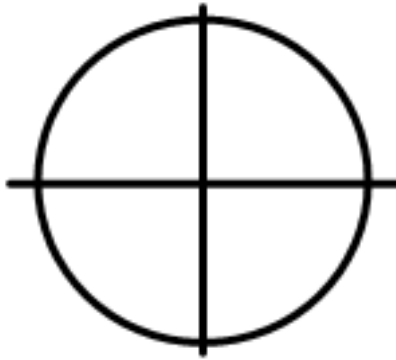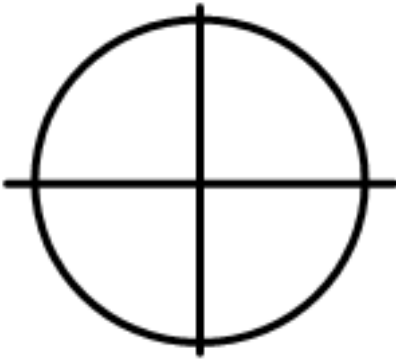   c. $\theta = \dfrac{7\pi}{6}$ d. $\theta = -\dfrac{23\pi}{4}$

5. Find two different solutions for each Give your answers in degrees $\left(0 \le \theta < 360^\circ\right)$ and radians $\left(0 \le \theta < 2\pi\right)$

    a. $\cos(\theta) = \dfrac{1}{2}$ b. $\tan(\theta) = \dfrac{1}{\sqrt{3}}$ c. $\sin(\theta) = -\dfrac{1}{\sqrt{2}}$

6. Find the period and amplitude: