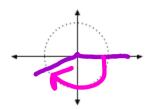
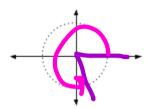
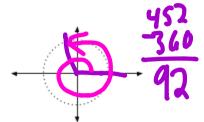
Sketch a graph of each angle. Determine the quadrant of the terminal side of the angle in standard position.

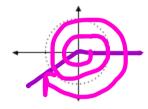
- 1. -160°
- 2. 280°
- 3. 452°

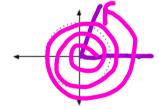


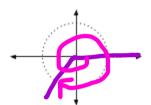




- 4. -827°
- 5. 1150°
- 6. -455°







Determine the measure of an angle θ coterminal with the give angle that satisfies the specified condition.

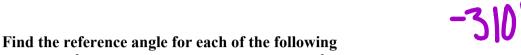
- 7.
- 48° ; $360^{\circ} \le \theta \le 720^{\circ}$ **408** 110° ; $-360^{\circ} \le \theta \le 0^{\circ}$ **256**
- -15°; $180^{\circ} \le \theta \le 540^{\circ}$ 3 -250°; $360^{\circ} \le \theta \le 720^{\circ}$ 9.

Determine two different coterminal angles, one with positive measures, and one with negative measures for each angle.

11.

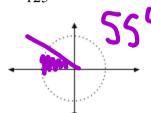
-150° 210° 12.

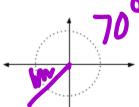
13. -22° 14.

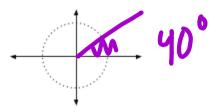


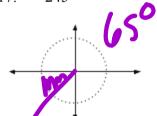


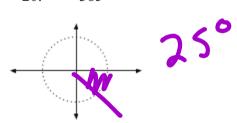
12. 125°











Find the exact values of the six trig functions of an angle θ whose terminal side passes through the given point.

$$22. (-7, -5)$$

$$\sin\theta = \frac{7}{5}$$
 $\cos\theta = \frac{4}{5} \tan\theta = \frac{7}{4}$
 $50\theta = \frac{9}{5}$ $\cos\theta = \frac{4}{5} \tan\theta = \frac{7}{4}$

Find the exact value of the other five trig functions of θ if θ terminates in the given quadrant and has the given function value.

23. QII,
$$\sec \theta = -\frac{5}{4}$$

24. QIII,
$$\tan \theta = \frac{1}{3}$$

$$sin\theta = -\frac{1}{\sqrt{10}}$$

$$105\theta = -\frac{3}{\sqrt{10}}$$

$$Sin\theta = \frac{3}{5}$$
 (SIA=