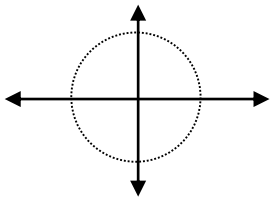
Pre AP Pre-Calculus
6.4 Worksheet: Angle Measure

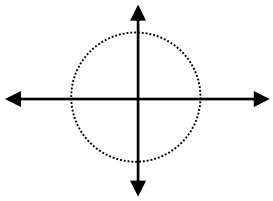
Name: _____
Date: _____Period: _____

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

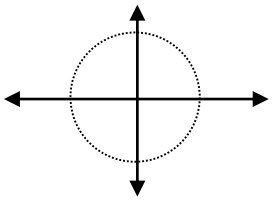
1. -160°



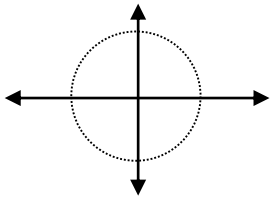
2. 280°



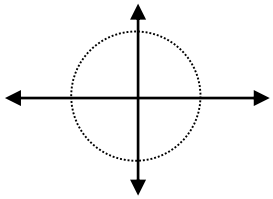
3. 452°



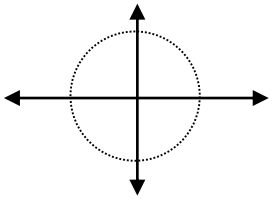
4. -827°



5. 1150°



6. -455°



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

7. 48°; $360° \le \theta \le 720°$

8. 110°; $-360° \le \theta \le 0°$

9. -15°; $180° \le \theta \le 540°$

10. -250°; $360° \le \theta \le 720°$

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

11. 55°

12. -150°

13. -22°

14. 410°

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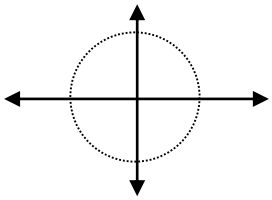
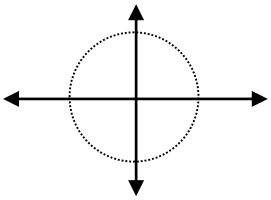
Find the reference angle for each of the following

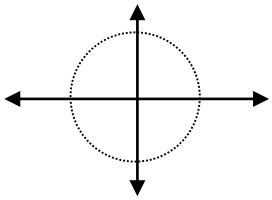
12. 125°



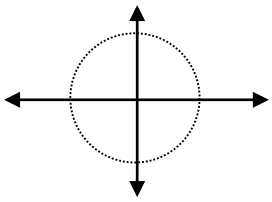
16. -110°



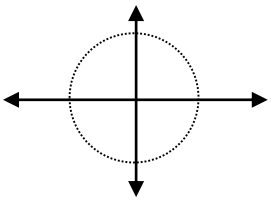
17. 400°



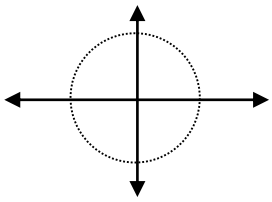
18. 22°



17. 245°



20. -385°



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

21. $(3,-4)$

22. $(-7,-5)$

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, $\tan\theta = \frac{1}{3}$