

Name Answers

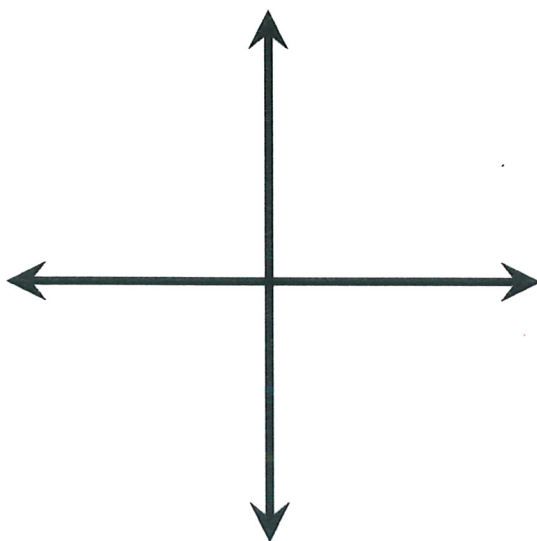
Date _____

Unit Circle 1 – Coterminal Angles, Reference Angles, and RadiansFind the coterminal angles for each angle such that $0^\circ < \theta < 360^\circ$.

1. -881° <i>199°</i>	2. -575° <i>145°</i>	3. 385° <i>25°</i>	4. 1164° <i>84°</i>
5. -454° <i>266°</i>	6. 783° <i>63°</i>	7. -140° <i>220°</i>	8. -1036° <i>44°</i>
9. -223° <i>137°</i>	10. 303° <i>303°</i>	11. -719° <i>1°</i>	12. -944° <i>136°</i>

Find the corresponding reference angle.

1. 120° <i>60°</i>	2. 300° <i>60°</i>	3. 240° <i>60°</i>	4. 330° <i>30°</i>
5. 210° <i>30°</i>	6. 274° <i>86°</i>	7. 100° <i>80°</i>	8. 226° <i>46°</i>
9. 132° <i>48°</i>	10. 337° <i>23°</i>	11. 78° <i>78°</i>	12. 268° <i>88°</i>
13. 306° <i>54°</i>	14. 52° <i>52°</i>	15. 197° <i>17°</i>	16. 176° <i>4°</i>



Convert each degree measure to exact radian measure.

17. 120° $\frac{2\pi}{3}$	18. 270° $\frac{3\pi}{2}$	19. 75° $\frac{5\pi}{12}$
20. 45° $\frac{\pi}{4}$	21. 150° $\frac{5\pi}{6}$	22. 225° $\frac{5\pi}{4}$
23. 330° $\frac{11\pi}{6}$	24. 300° $\frac{5\pi}{3}$	25. 180° π
26. 240° $\frac{4\pi}{3}$	27. 15° $\frac{\pi}{12}$	28. 60° $\frac{\pi}{3}$

Convert each radian measure to degree measure.

29. $\frac{29\pi}{36}$ 130° 145°	30. $\frac{17\pi}{12}$ 255°	31. $\frac{8\pi}{9}$ 160°
32. $\frac{56\pi}{36}$ 280°	33. $\frac{5\pi}{8}$ 112.5°	34. $\frac{2\pi}{3}$ 120°
35. $\frac{2\pi}{9}$ 40° /	36. $\frac{47\pi}{180}$ 94° 47°	37. $\frac{\pi}{180}$ 1°
38. $\frac{17\pi}{45}$ 68°	39. $\frac{23\pi}{90}$ 46°	40. 77π 13,860°