

Radians and Degrees

Name _____

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Date _____

Convert each degree measure into radians and each radian measure into degrees.

1) 105°

2) 335°

3) $-\frac{11\pi}{12}$

4) $-\frac{17\pi}{6}$

5) -420°

6) $\frac{3\pi}{4}$

Find a positive and a negative coterminal angle for each given angle.

7) 600°

8) 312°

9) 180°

10) 100°

11) $-\frac{19\pi}{12}$

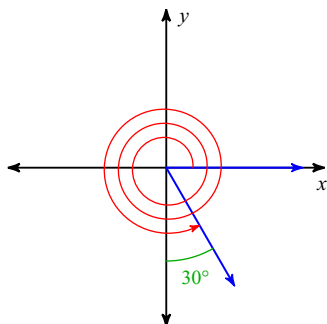
12) $\frac{7\pi}{12}$

13) $-\frac{5\pi}{4}$

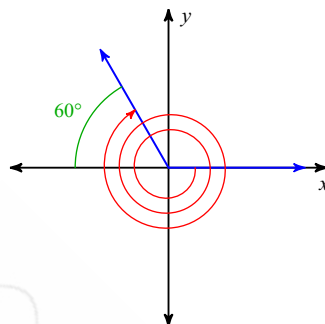
14) $\frac{19\pi}{12}$

Find the measure of each angle.

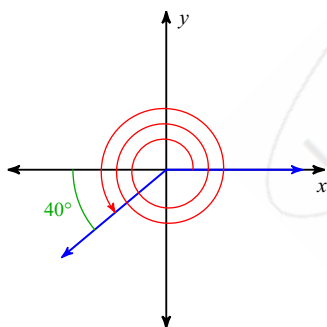
15)



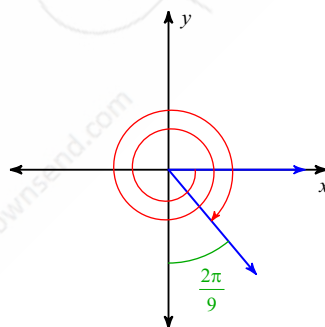
16)



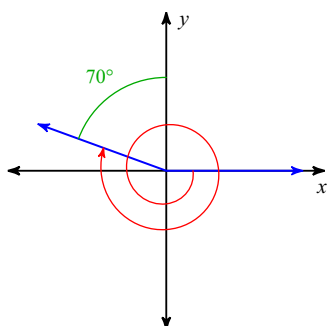
17)



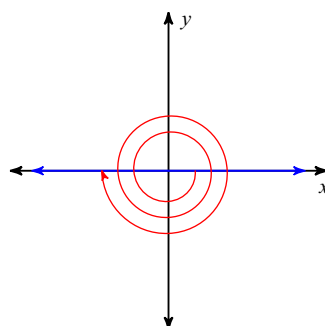
18)



19)



20)



Answers to Radians and Degrees

1) $\frac{7\pi}{12}$

5) $-\frac{7\pi}{3}$

9) 540° and -180°

13) $\frac{3\pi}{4}$ and $-\frac{13\pi}{4}$

17) 940°

2) $\frac{67\pi}{36}$

6) 135°

10) 460° and -260°

14) $\frac{43\pi}{12}$ and $-\frac{5\pi}{12}$

18) $-\frac{77\pi}{18}$

3) -165°

7) 240° and -120°

11) $\frac{5\pi}{12}$ and $-\frac{43\pi}{12}$

15) 1020°

19) -560°

4) -510°

8) 672° and -48°

12) $\frac{31\pi}{12}$ and $-\frac{17\pi}{12}$

16) -960°

20) -5π

