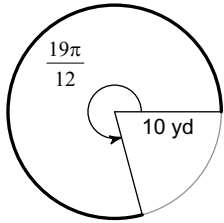


Trig Review

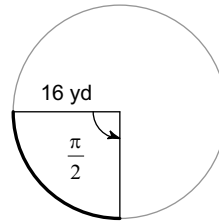
Find the length of each arc.

1)



- A) 8π yd B) $\frac{95\pi}{6}$ yd
 C) $\frac{361\pi}{6}$ yd D) 5700π yd

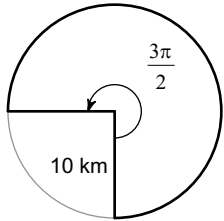
2)



- A) 8π yd B) 9π yd
 C) $\frac{392\pi}{3}$ yd D) 64π yd

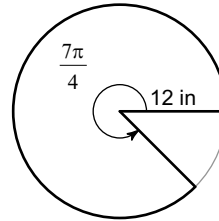
Find the area of each sector.

3)



- A) 15π km² B) $\frac{51\pi}{2}$ km²
 C) 33π km² D) 75π km²

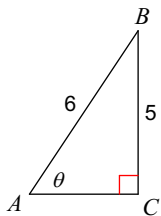
4)



- A) 243π in² B) 126π in²
 C) 6π in² D) $\frac{247\pi}{12}$ in²

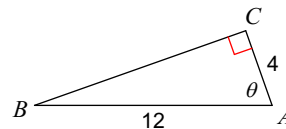
Find the measure of each angle indicated. Round to the nearest tenth.

5)



- A) 58.5° B) 64.4°
 C) 56.4° D) 73.2°

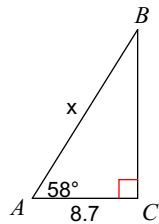
6)



- A) 65° B) 70°
 C) 70.5° D) 53.7°

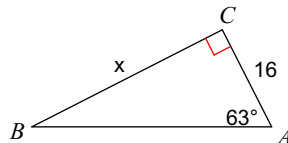
Find the measure of each side indicated. Round to the nearest tenth.

7)



- A) 20.7 B) 21.3
C) 16.5 D) 15.8

8)



- A) 31.4 B) 23.9
C) 33.6 D) 22.2

Convert each degree measure into radians.

9) -330°

- A) $-\frac{16\pi}{9}$ B) $-\frac{11\pi}{3}$
C) $-\frac{11\pi}{6}$ D) $-\frac{34\pi}{9}$

10) 585°

- A) $\frac{29\pi}{9}$ B) $\frac{119\pi}{36}$
C) $\frac{15\pi}{4}$ D) $\frac{13\pi}{4}$

Convert each radian measure into degrees.

11) $\frac{10\pi}{3}$

- A) 600° B) 1200°
C) 565° D) 585°

12) $\frac{61\pi}{36}$

- A) 305° B) 350°
C) 610° D) 710°

State the quadrant in which the terminal side of each angle lies.

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

- A) IV B) I
C) II D) III

14) $-\frac{4\pi}{3}$

- A) III B) IV
C) I D) II

Solve each equation for $0 \leq \theta < 2\pi$.

15) $-2\csc \theta = 4$

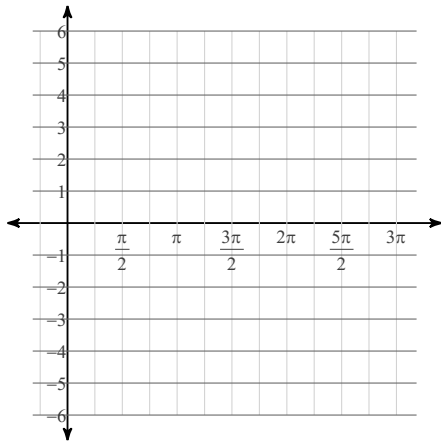
- A) $\left\{\frac{\pi}{3}\right\}$ B) $\left\{\frac{7\pi}{6}, \frac{11\pi}{6}\right\}$
C) No solution. D) $\left\{\frac{2\pi}{3}\right\}$

16) $-4\sqrt{3} = 6\sec \theta$

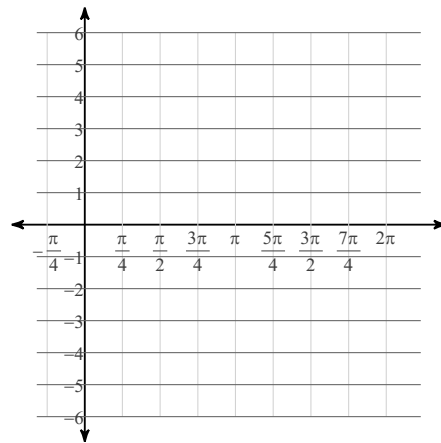
- A) $\left\{\frac{7\pi}{4}\right\}$ B) $\left\{\frac{\pi}{4}, \frac{7\pi}{4}\right\}$
C) $\left\{\frac{5\pi}{6}, \frac{7\pi}{6}\right\}$ D) $\left\{\frac{7\pi}{6}\right\}$

Graph each function using radians.

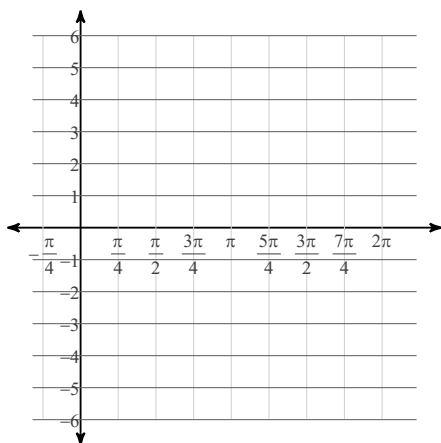
17) $y = 4\sin \theta - 2$



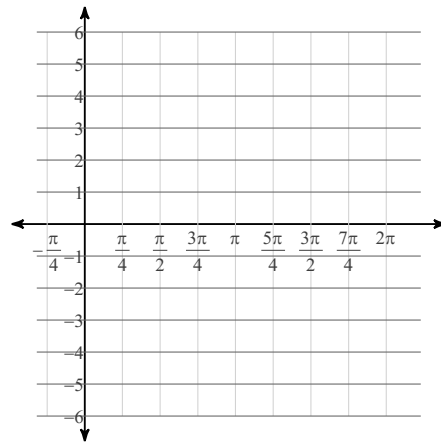
18) $y = \frac{1}{2} \cdot \tan \theta - 1$



19) $y = \frac{1}{2} \cdot \sin 2\theta + 1$



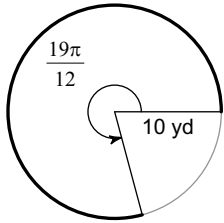
20) $y = 2\cos 2\theta + 1$



Trig Review

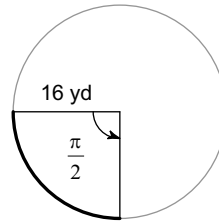
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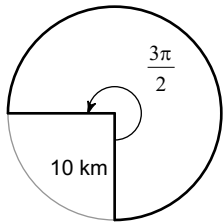
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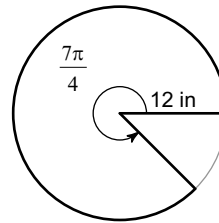
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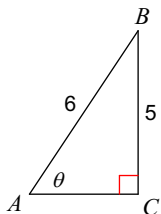
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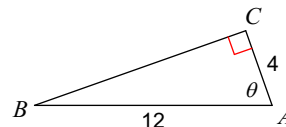
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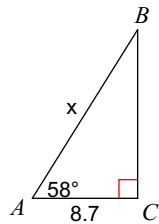
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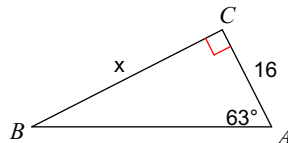
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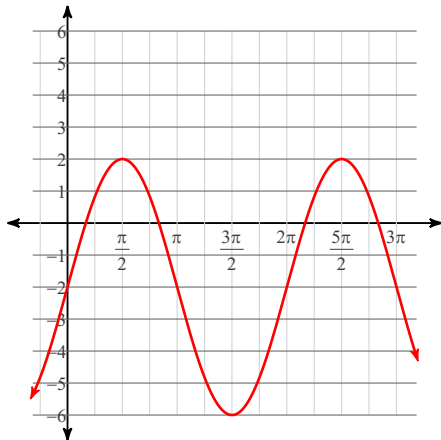
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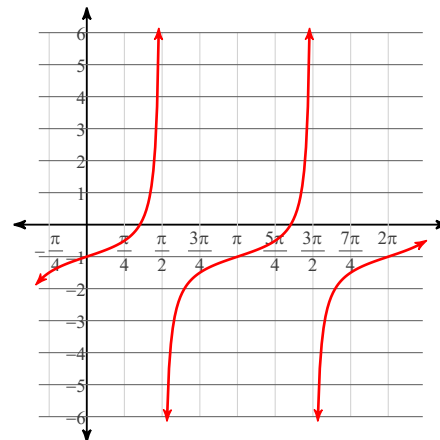
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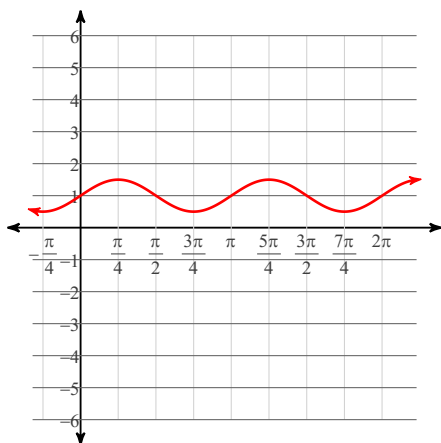
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