

Angles, Coterminal Angles, Radians, Degrees

State if the given angles are coterminal.

1) $100^\circ, -460^\circ$

2) $90^\circ, -630^\circ$

3) $\frac{11\pi}{36}, \frac{83\pi}{36}$

4) $\frac{19\pi}{36}, \frac{91\pi}{36}$

Find a coterminal angle between 0° and 360° .

5) -635°

6) -195°

Find a coterminal angle between 0 and 2π for each given angle.

7) $-\frac{8\pi}{3}$

8) $\frac{25\pi}{12}$

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

9) 380°

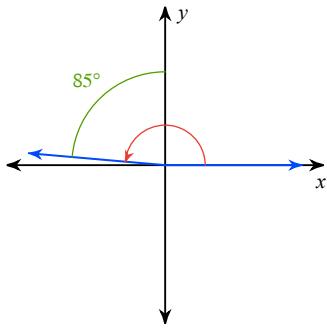
10) -260°

11) $-\frac{\pi}{2}$

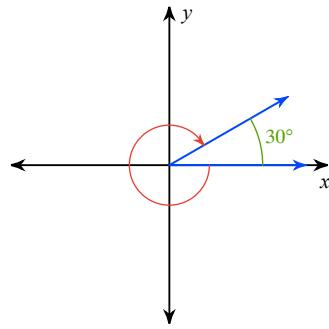
12) $\frac{13\pi}{9}$

Find the measure of each angle.

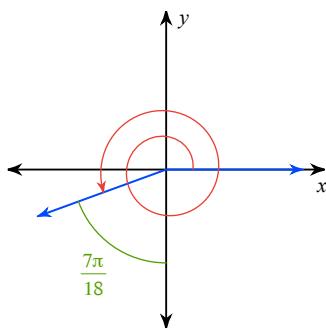
13)



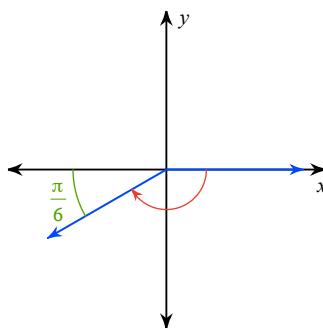
14)



15)



16)



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

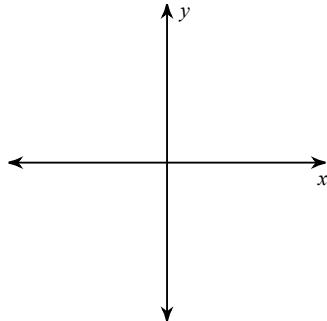
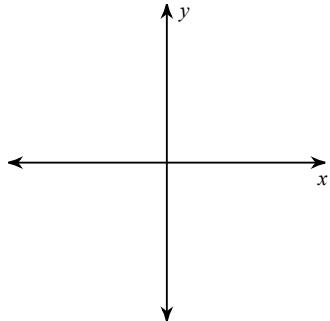
17) -343°

18) $-\frac{2\pi}{3}$

Draw an angle with the given measure in standard position.

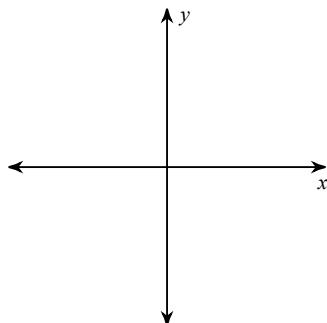
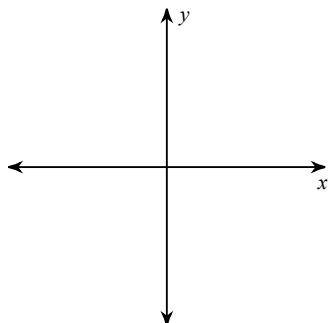
19) 255°

20) -480°



21) $-\frac{10\pi}{3}$

22) $\frac{37\pi}{18}$



Convert each degree measure into radians.

23) -150°

24) 250°

Convert each radian measure into degrees.

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

26) $-\frac{17\pi}{12}$