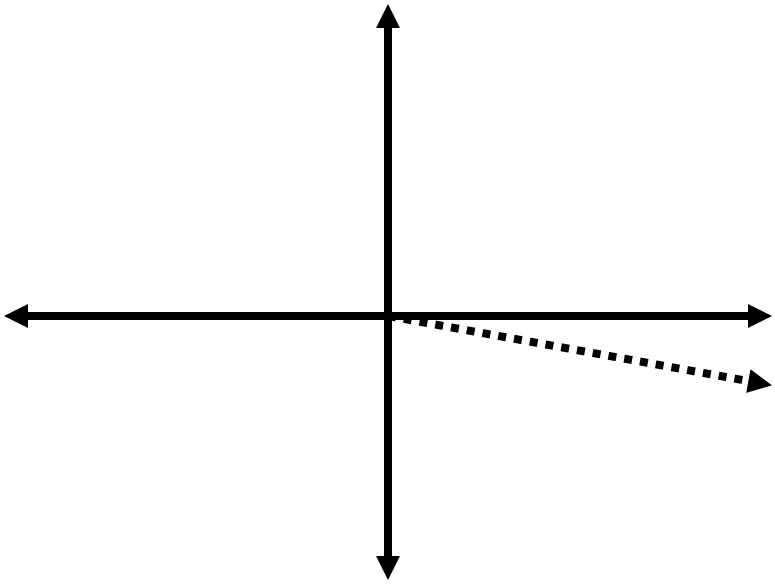
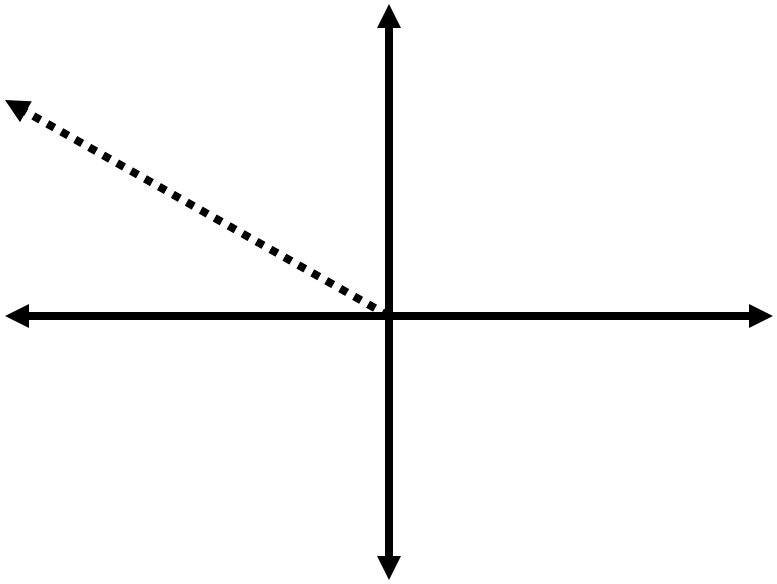
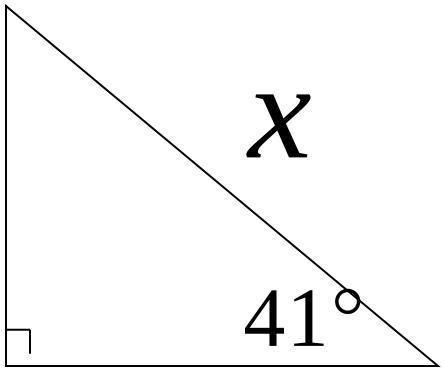


Draw the angle in standard position:

130°



What is the value of x?



28

37.1

Find a positive and negative angle coterminal to:

$$\frac{\pi}{6}$$

$$\frac{13\pi}{6}, \quad -\frac{11\pi}{6}$$

Convert $18°$ to radians.

$$\frac{\pi}{10}$$

Find the value of all six trig functions if the terminal side of an angle contains the point (6, 2).

$$\sin\theta = \frac{\sqrt{10}}{10} \qquad \csc\theta = \sqrt{10}$$

$$\cos\theta = \frac{3\sqrt{10}}{10} \qquad \sec\theta = \frac{\sqrt{10}}{3}$$

$$\tan\theta = \frac{1}{3} \qquad \cot\theta = 3$$

What is the reference angle for $236°$?

56°

What is the exact value of $\tan 135°$?

−1

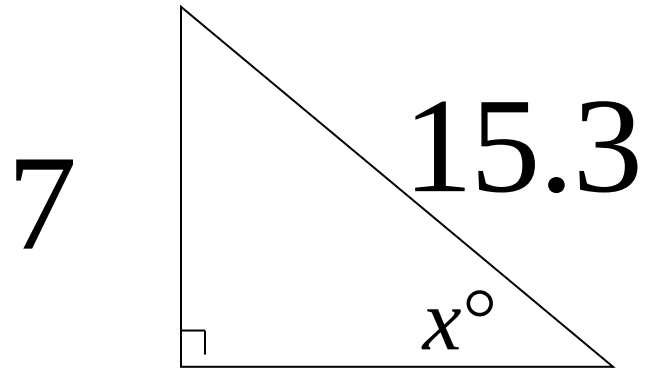
Find the value of all six trig functions given $\tan\theta = \frac{-12}{5}$ and the angle is in Quadrant IV.

$$\sin\theta = \frac{-12}{13} \quad \csc\theta = \frac{13}{-12}$$

$$\cos\theta = \frac{5}{13} \quad \sec\theta = \frac{13}{5}$$

$$\tan\theta = \frac{-12}{5} \quad \cot\theta = \frac{5}{-12}$$

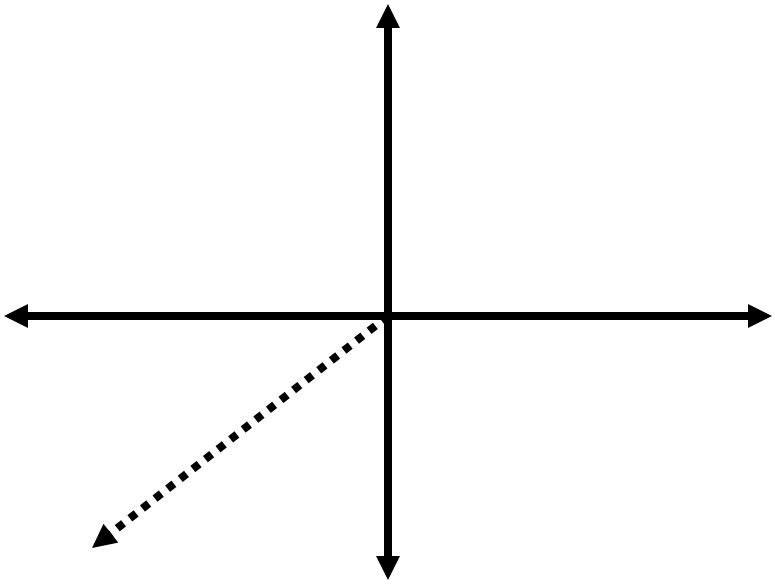
What is the value of x?



27.2

Draw the angle in standard position

$$\frac{5\pi}{4}$$



Find a positive and negative angle coterminal to:

$45°$

$-315°, 405°$

Convert $\frac{5\pi}{8}$ to degrees

112.5°

Find the value of all six trig functions if the terminal side of an angle contains the point:
(-9, -40)

$$\sin\theta = \frac{-40}{41} \quad \csc\theta = \frac{41}{-40}$$

$$\cos\theta = \frac{-9}{41} \quad \sec\theta = \frac{41}{-9}$$

$$\tan\theta = \frac{40}{9} \quad \cot\theta = \frac{9}{40}$$

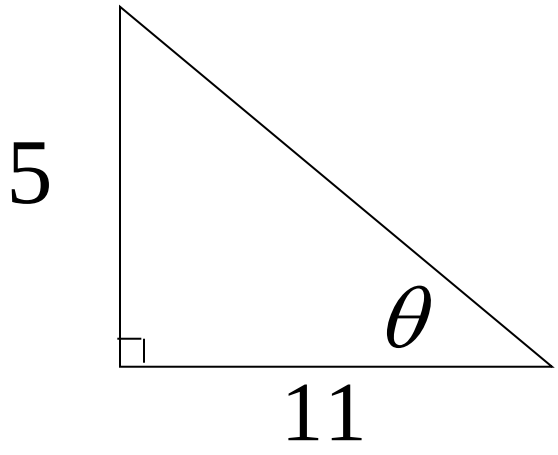
What is the reference angle for $\frac{4\pi}{3}$?

$$\frac{\pi}{3}$$

Find the exact value of $\cos \frac{5\pi}{3}$.

$\frac{1}{2}$

Find all six trig function of θ.



$$\sin\theta = \frac{5\sqrt{146}}{146} \quad \csc\theta = \frac{\sqrt{146}}{5}$$

$$\cos\theta = \frac{11\sqrt{146}}{146} \quad \sec\theta = \frac{\sqrt{146}}{11}$$

$$\tan\theta = \frac{5}{11} \quad \cot\theta = \frac{11}{5}$$

Draw the angle in standard position:

$$350°$$