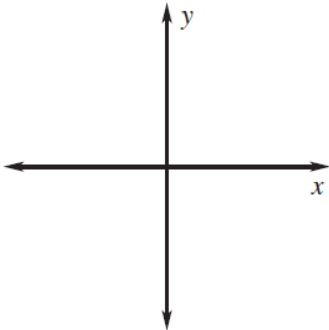


Lesson 13.2 Worksheet (Day 2)

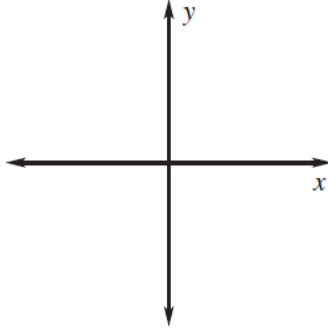
Name: _____

Draw an angle with the given measure in standard position.

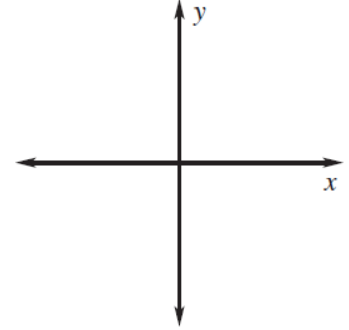
1.) 130°



2.) $\frac{5\pi}{4}$



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



Find one positive angle and one negative angle that are coterminal with the given angle.

4.) -35°

5.) 280°

6.) $-\frac{\pi}{6}$

7.) $\frac{7\pi}{5}$

Convert the degree measure to radians or the radian measure to degrees.

8.) 270°

9.) -135°

10.) $\frac{11\pi}{6}$

11.) $-\frac{\pi}{18}$

Evaluate the trigonometric function. When possible, give an exact answer. When using a calculator, round answers to the nearest hundredth.

12.) $\cos \frac{\pi}{4}$

13.) $\sin \frac{\pi}{6}$

14.) $\cot \frac{\pi}{9}$

15.) $\csc \frac{4\pi}{5}$

Find the arc length and area of a sector with the given radius r and central angle θ . Round answers to the nearest hundredth.

16.) $r = 5 \text{ m}, \theta = \frac{\pi}{2}$

17.) $r = 11 \text{ ft}, \theta = 200^\circ$

18.) A ramp with an incline of 15° is being used to load material into a truck. The tailgate of the truck is 3 feet off of the ground. To the nearest tenth of a foot, find the length of the ramp.

19.) An airplane climbs at an angle of 11° with the ground. Find the ground distance that the plane has covered when it has attained an altitude of 400 feet. Round to the nearest foot.