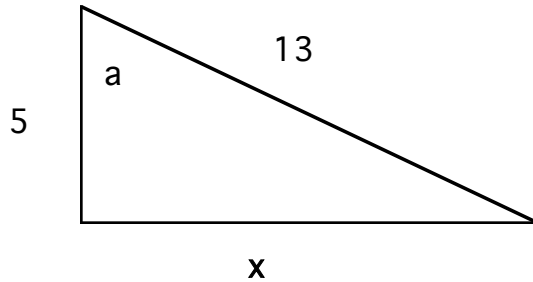


Trigonometry Quiz 32

1) Given the right triangle below;



- a) Find x . _____ b) Find angle a (in deg). _____
c) Find $\cos(a)$. _____ d) Find $\tan(a)$. _____

2) Give the quadrant for the terminal arm.

- a) -200° _____ b) 580° _____ c) 8000° _____

3) Find the smallest positive coterminal angle for each of the angles in question number 2.

- a) _____ b) _____ c) _____

4) Find the trig functions for the angle "a", which is on the terminal arm passing through the point, (12, -5). Write as a fraction.

- a) $\sin(a) =$ _____ b) $\cos(a) =$ _____ c) $\tan(a) =$ _____

d) Find the angle "a" in degrees. ($0 \leq a < 360^\circ$) _____

5) If $\cos(a) = -0.5$, find "a" in degrees. ($0 \leq a < 360$, give two values).

_____, and _____

6) Give the exact answer.

a) $\sin(60^\circ)$ _____ b) $\tan(240^\circ)$ _____ c) $\cos(-225^\circ)$ _____

7) Convert from degrees to radians (express in terms of π)

a) 135° _____ b) -300° _____ c) 510° _____

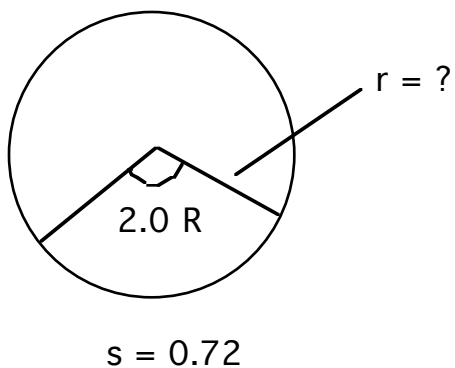
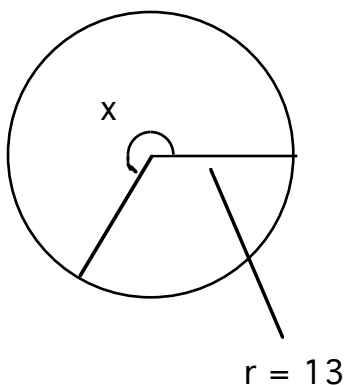
8) Convert from radians to degrees.

a) $2\pi/3$ _____ b) -5π _____ c) 3.0 _____

9) Answer the following questions about the circles below.

a) Find x in radians. _____ b) Find the radius r. _____

s = 45



10) Find the values. Angles are in radians.

a) $\cos(\pi/3)$ _____ b) $\tan(-3\pi/4)$ _____ c) $\cos(4.0)$ _____

Answers: 1)a) 12, b) 67° , c) $5/13$, d) $12/5$, 2)a) 2, b) 3, c) 1, 3)a) 160° , b) 220° , c) 80° , 4)a) $-5/13$, b) $12/13$, c) $-5/13$, d) 337° , 5) 120° , 240° , 6)a) $\sqrt{3}/2$, b) $\sqrt{3}$, c) $-\sqrt{2}/2$, 7)a) $3\pi/4$, b) $-5\pi/3$, c) $17\pi/6$, 8)a) 120° , b) -900° , c) 172° , 9)a) 3.5, b) 0.36, 10)a) 0.50, b) 1.0, c) -0.65.