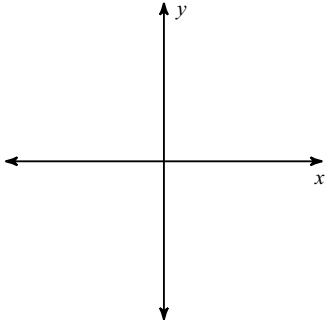


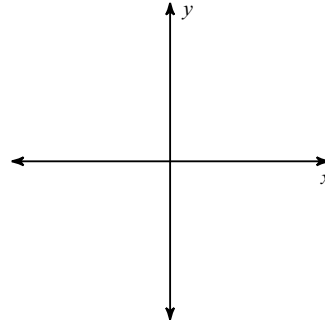
Trigonometry Test Review Day 1

Draw an angle with the given measure in standard position.

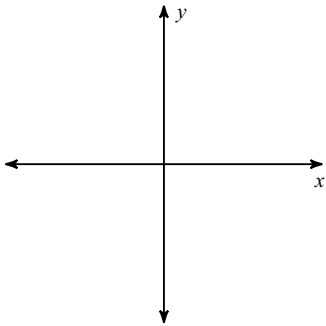
1) -335°



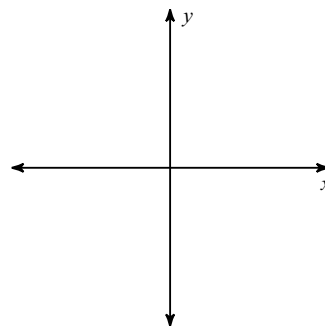
2) -470°



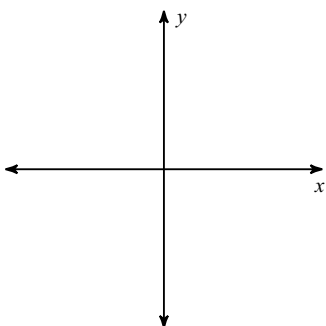
3) -150°



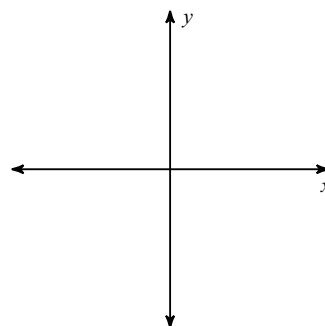
4) $-\frac{19\pi}{9}$



5) $\frac{10\pi}{9}$

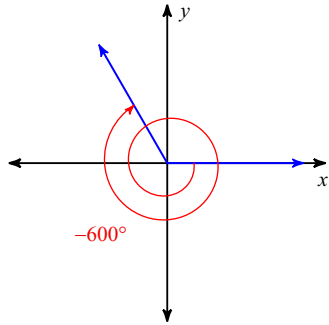


6) $\frac{4\pi}{9}$

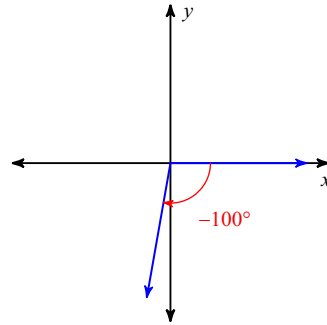


Find the reference angle.

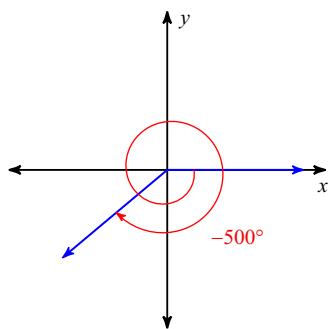
7)



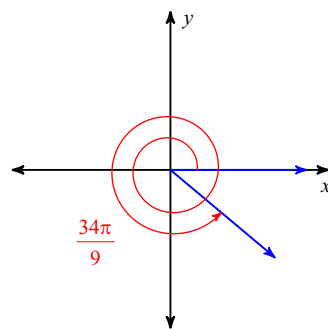
8)



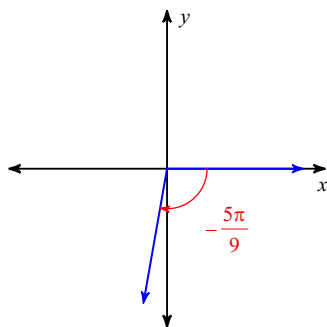
9)



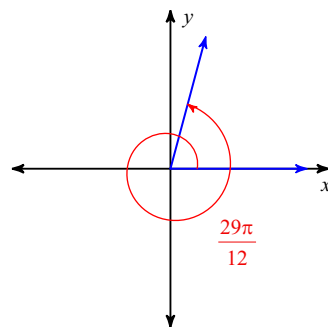
10)



11)



12)



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

13) 8°

14) 180°

15) -555°

16) $-\frac{11\pi}{4}$

17) $\frac{5\pi}{3}$

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

Convert each degree measure into radians and each radian measure into degrees.

19) 285°

20) -135°

21) -240°

22) $\frac{2\pi}{9}$

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

24) $\frac{31\pi}{6}$

Find the exact value of each trigonometric function.

25) $\sin 180^\circ$

26) $\csc 765^\circ$

27) $\csc 60^\circ$

28) $\csc 870^\circ$

29) $\sec 390^\circ$

30) $\csc -900^\circ$

31) $\sec -\frac{16\pi}{3}$

32) $\csc \frac{11\pi}{4}$

33) $\tan \frac{\pi}{6}$

34) $\tan \frac{7\pi}{6}$

35) $\cot -\frac{2\pi}{3}$

36) $\sec -\frac{13\pi}{6}$

Find the exact values of the six trigonometric functions of θ if the terminal side of θ contains the given point.

37) $(-4, 3)$

38) $(-1, -1)$

Suppose θ is an angle in standard position whose terminal side is in the given quadrant. For each function, find the exact values of the remaining five trigonometric functions of θ .

39) $\sin \theta = \frac{6}{8}$, Quadrant II

40) $\cos \theta = \frac{8}{17}$, Quadrant IV

The given point P is located on the unit circle. Find $\sin \theta$ and $\cos \theta$.

41) $P\left(\frac{3}{5}, \frac{4}{5}\right)$

42) $P\left(\frac{5}{13}, -\frac{12}{13}\right)$

43) $P(0, 1)$

44) $P(-1, 0)$

45) $P\left(-\frac{9}{41}, -\frac{40}{41}\right)$

46) $P\left(\frac{1}{2}, -\sqrt{\frac{3}{2}}\right)$

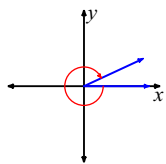
What is the measure of the angle that intersects the unit circle at the given point?

47) $\left(\frac{\sqrt{3}}{2}, \frac{1}{2}\right)$

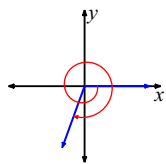
48) $P\left(-\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2}\right)$

Answers to Trigonometry Test Review Day 1

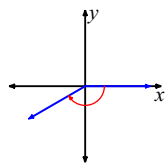
1)



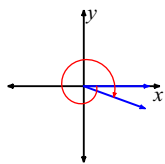
2)



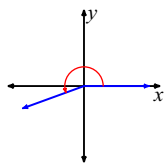
3)



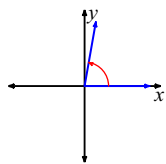
4)



5)



6)



7) 60°

8) 80°

9) 40°

10) $\frac{2\pi}{9}$

11) $\frac{4\pi}{9}$

12) $\frac{5\pi}{12}$

13) 368° and -352°

14) 540° and -180°

15) 165° and -195°

16) $\frac{5\pi}{4}$ and $-\frac{3\pi}{4}$

17) $\frac{11\pi}{3}$ and $-\frac{\pi}{3}$

18) $\frac{\pi}{2}$ and $-\frac{7\pi}{2}$

19) $\frac{19\pi}{12}$

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

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

22) 40°

23) -30°

24) 930°

25) 0

26) $\sqrt{2}$

27) $\frac{2\sqrt{3}}{3}$

28) 2

29) $\frac{2\sqrt{3}}{3}$

30) Undefined

31) -2

32) $\sqrt{2}$

33) $\frac{\sqrt{3}}{3}$

34) $\frac{\sqrt{3}}{3}$

35) $\frac{\sqrt{3}}{3}$

36) $\frac{2\sqrt{3}}{3}$

37)

38)

39)

40)

41)

42)

43)

44)

45)

46)

47)

48)