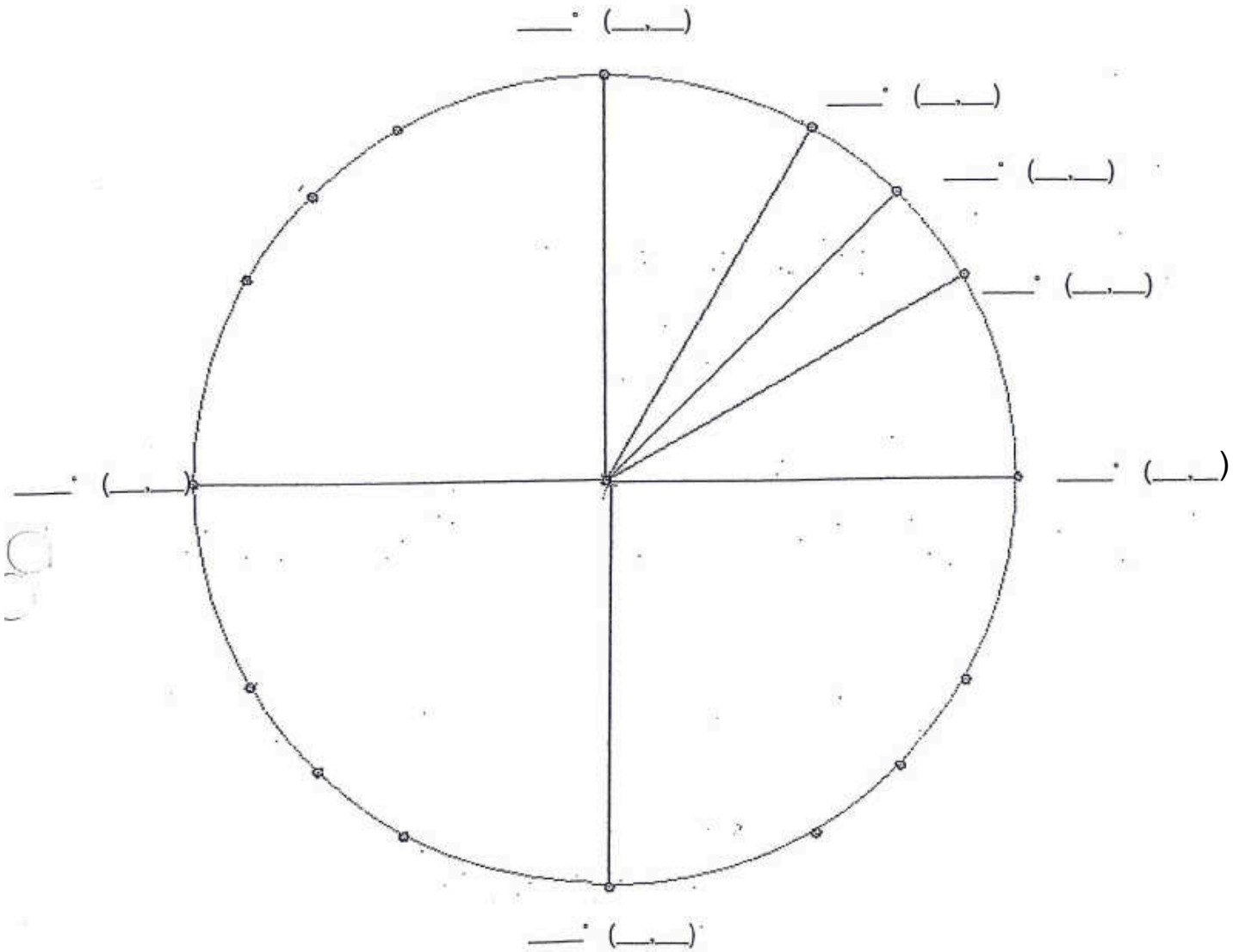


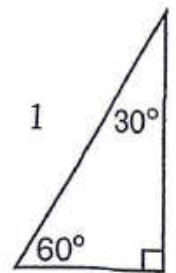
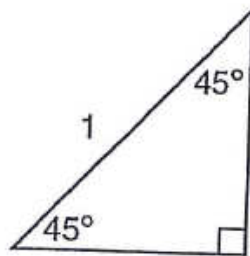
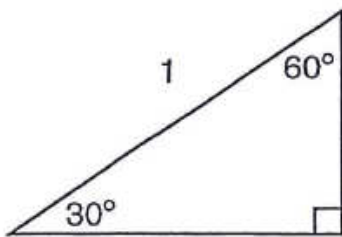
Name: _____
 Unit Circle Quadrant I

Date: _____
 Period: _____

Fill in the degree marks and the coordinate points for the unit circle. Sketch the triangles in quadrant I.



Fill in the missing sides with the exact values.



Mixed Review:

1. If $g(x) = x + 3$ and $f(x) = x^2 - 2$, find the value of $f(g(-3))$.

2. What is the inverse of the function $y - 2 = 7x$?

- A) $y = 7x - 2$
- B) $y = \frac{2 - x}{7}$
- C) $y = \frac{2x}{7}$
- D) $y = \frac{x - 2}{7}$

3. The inverse function of $\{(2, 6), (-3, 4), (7, -5)\}$ is

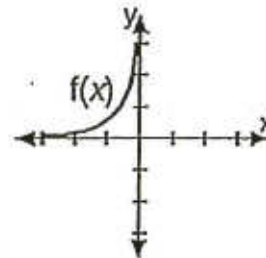
- A) $\{(2, -6), (-3, -4), (7, 5)\}$
- B) $\{(6, 2), (4, -3), (-5, 7)\}$
- C) $\{(-2, 6), (3, 4), (-7, -5)\}$
- D) $\{(-6, -2), (-4, 3), (5, 7)\}$

4. Solve: $|5x + 1| = x + 9$

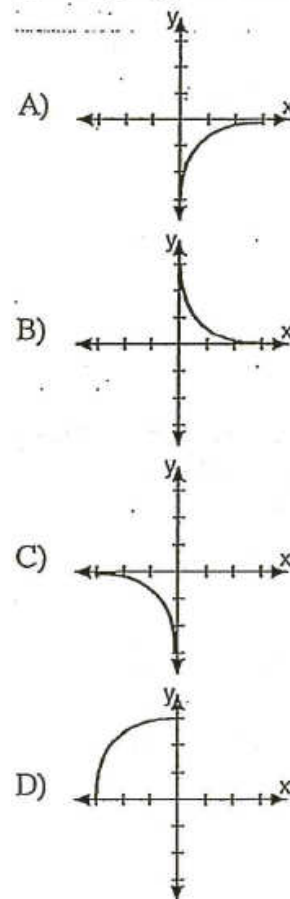
5. The roots of the equation $3x^2 + 2x - 1 = 0$ are

- A) irrational
- B) equal
- C) rational.
- D) imaginary

6. The accompanying diagram represents the graph of $f(x)$.



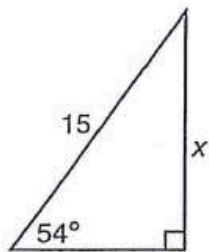
Which graph below represents $f^{-1}(x)$?



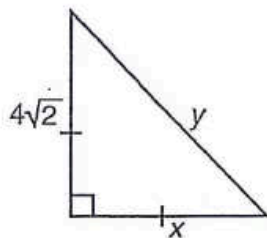
___ 1) Complete the following to make the sentence true:

$$\cos 20^\circ = \sin \underline{\quad}$$

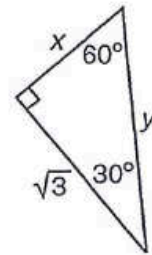
___ 2) Find the value of x to the nearest integer.



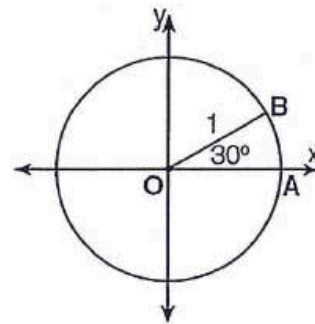
___ 3) Use the information marked on the figure to find the value of x and/or y .



___ 4) Use the information marked on the figure to find the value of x and y .



___ 5) In the accompanying diagram, the center of circle O is at the origin, radius $OB = 1$, and $m\angle AOB = 30^\circ$.



What are the coordinates of point B ?

- A) $(1,1)$
- B) $(\frac{\sqrt{3}}{2}, \frac{1}{2})$
- C) $(\frac{1}{2}, \frac{\sqrt{3}}{2})$
- D) $(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2})$