Review-Vectors

Find the magnitude (simplified radical form) and direction angle (in degrees) for each vector. Draw the vector first

1.
$$(4, -10)$$

3.
$$-3i - 5j$$

4.
$$3i - 4j$$

5.
$$\langle -11, -7 \rangle$$

7. If
$$Q=(3,4)$$
 and $R=(-2,5)$ Find the component form and magnitude of vector \overrightarrow{QR}

DO ALL PROBLEMS NEATLY ON LINED PAPER.

Quick Review

In Exercises 1 and 2, determine the quadrants containing the terminal side of the angles.

- 1. (a) $5\pi/6$
- **(b)** $-3\pi/4$
- **2.** (a) -300°
- **(b)** 210°

In Exercises 3–6, find a positive and a negative angle coterminal with the given angle.

3, $-\pi/4$

4. $\pi/3$

5. 160°

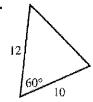
6. -120°

In Exercises 7 and 8, write a standard form equation for the circle.

- 7. Center (3, 0) and radius 2
- 8. Center (0, -4) and radius 3

In Exercises 9 and 10, use the Law of Cosines to find the measure of the third side of the given triangle.

9.



10.

