Algebra II Class Worksheet #1 Unit 7 page 1 _____

Find PQ for each of the following. When appropriate, round your answer to the nearest tenth.

1. **P(3 , 2) ; Q(-1 , 5) ; PQ =** _____

2. **P(-3 , 4) ; Q(3 , 4) ; PQ =** _____

3. **P(4 , 1) ; Q(-3 , 3) ; PQ =** _____

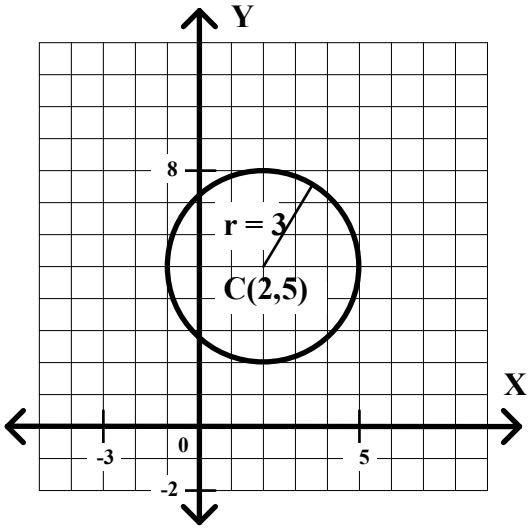
For each of the following circles, write its equation in (a) standard form and (b) general form.

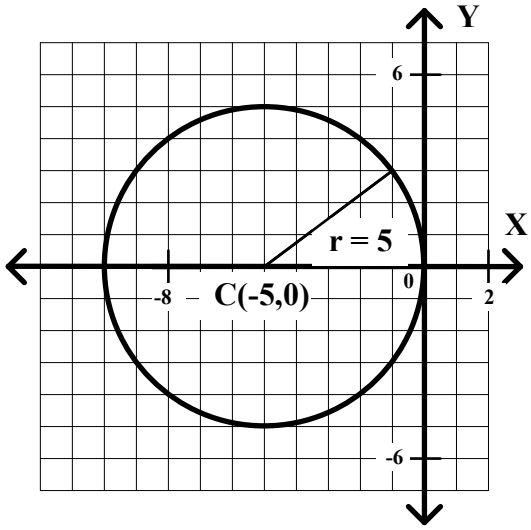
4. (a) _____

   (b) _____

5. (a) _____

   (b) _____





Algebra II Class Worksheet #1 Unit 7 page 2

The Equations of a Circle

General Form: $x^2 + y^2 + Dx + Ey + F = 0$

Standard Form: $(x - h)^2 + (y - k)^2 = r^2$ where r is the radius measure and (h,k) is the center.

6. Given: A circle has general form equation $x^2 + y^2 - 6x + 4y - 3 = 0$ **.**

Find the standard form equation and graph the circle.