Algebra II Worksheet \#3 Unit 7 page 1
Given the coordinates of P and Q , find PQ . Round your answers to the nearest tenth. (Show your work.)

1. $\mathrm{P}(-2,5)$ and $\mathrm{Q}(4,3) \mathrm{PQ}=$ $\qquad$ 2. $\mathrm{P}(-8,-3)$ and $\mathrm{Q}(3,-5) \mathrm{PQ}=$ $\qquad$
2. $\mathrm{P}(-0.2,7)$ and $\mathrm{Q}(4,1.4) \mathrm{PQ}=$ $\qquad$

Express each equation in standard form and sketch its graph.
5. $\mathbf{4} \mathrm{x}^{2}+\mathbf{2 5} \mathrm{y}^{2}-\mathbf{2 4 x}-\mathbf{6 4}=\mathbf{0}$
$\qquad$

6. $x^{2}+y^{2}-6 x+2 y-15=0$
$\qquad$


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Express each equation in standard form and sketch its graph.
7. $x^{2}+y^{2}+5 x=0$

8. $\mathbf{2 5} \mathbf{x}^{2}+9 \mathbf{y}^{2}+\mathbf{1 0 0} x-\mathbf{3 6} y-\mathbf{8 9}=0$


Write the general form equation for each of the following graphs.
9.

10.


