## QUIZ 8 - MTH 166-10 points

Name: Date:

Instructions: Solve the following. Remember to show all work in order to receive full credit.

1. Use the given information to solve the triangle. If two solutions exist, find both.
$A=29^{0}, a=30 \quad b=45$
2. Use the Law of Cosines to solve the triangle

$$
\mathrm{B}=75^{\circ}, \quad \mathrm{a}=6.2, \quad \mathrm{c}=9.4
$$

3. Use DeMoivre's Theorem to find the indicated power of the complex number. Express the result in standard form.

$$
(1-i)^{12}
$$

4. Find the indicated roots of the complex number. Express
each root in standard form.
cube roots of $-4 \sqrt{2}(1-i)$
5. Find and graph the equation of a parabola given the

Focus: $(2,0)$ and vertex at the origin.
6. Find the center and vertex of the ellipse:

$$
\frac{x^{2}}{169}+\frac{y^{2}}{144}=1
$$

7. Use a graphing utility to graph the hyperbola:
$3 y^{2}-5 x^{2}=15 \quad$ (Hint: Use two equations)

-     - REMEMBER after QUIZ \# 8 there will be an exam in the TESTING CENTER
- EXAM \#4 will include concepts from Quizzes \#7 and \#8

