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

1. Use inequality and interval notation to describe the set.
   a) $x$ is negative
   b) $y$ is at least 5
   c) $z$ is at least 3 but no more than 7

2. Use a calculator to evaluate the expression.
   a) $\frac{12.7 - 4.1}{7 - 3}$
   b) $\frac{1}{5}(-8 - 9)$
   c) $\sqrt{7.6}$

3. Completely factor the expression
   a) $x^3 - 16x$
   b) $2t^3 - 54$
   c) $13x + 6 + 5x^2$

4. Given points $(1,12)$, and $(6,0)$
   a) Find the midpoint of the line segment joining the points.
   b) Find the distance between the points.

5. Find the standard form of the equation of the specified circle.
   center: $(3,-2)$; radius: 7

6. Find the center and radius of the circle $(x - 2)^2 + (y + 1)^2 = 2$

- REMEMBER after QUIZ # 2 there will be an exam in the TESTING CENTER
- EXAM # 1 will include concepts from Quizzes # 1 and # 2