

QUIZ 1 - MTH 163 - 10 points

Name: _____ Date: _____

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) $\frac{(1/5)(-8-9)}{(-1/3)}$
 - 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