

Math 80 Quiz #6
February 17, 2010

Name: _____

Show all work on a separate sheet. Put a box around your final answer. No calculators are permitted.

1. (3 pts.) Solve $\begin{cases} 5x = 24 + 2y \\ 3x + 3y = 6 \end{cases}$ using elimination.

2. (3 pts.) You want to build a rectangular garden area with a perimeter of 140 meters. You also want the width to be 40 meters more than the length. Find the length and the width of your possible garden.

(Use **two** variables and **two** equations to solve and write your answer in a complete sentence.)

3. (2 pts.) Graph $y = x^3 + 1$. Use a table of values with $x = 0, 1, 2, -1,$ and -2 . (Draw a nice set of axes, and clearly the points you use.)

4. (2 pts.) $(12x^3 - 5x^2 + 10) + (4x^3 - x^2 + 2x + 3) = ?$