

QUIZ 4 – Math 105 – Fall 2007

Pietro Poggi-Corradini

1. Complete the square $x^2 - 4x =$

2. Solve $x(x - 2)(1 - x) \leq 0$

3. Find the line through $(1, -5)$ and slope -1

4. Avg. rate of change of $x^2 - 2$ from $x = 0$ to $x = 1$

5. Avg. rate of change of \sqrt{x} from $x = 1$ to $x = 1+h$

In 6,7,8 below, choose a, b, c, d in $af(bx + c) + d$ so that the graph of $f(x)$ is

6. shifted 2 units to the right

7. flipped about the x -axis and shifted up by 1 unit

8. compressed by a factor of 2 horizontally and flipped about the y -axis

9. Find the maximum value of $1 + 2x - x^2$

10. Find x where $x^2 + 2x - 3$ attains its minimum value