

Algebra 2C
Practice Quiz on 8-6 and 10-2

Name: _____

Date: _____ Hr: _____

SHOW ALL WORK

For #1-3, solve each equation by multiplying by the LCD. Check each solution.

1. $\frac{3x-2}{12} - \frac{1}{6} = \frac{1}{6}$

1. _____

2. $\frac{5x}{4} - \frac{3}{x} = \frac{1}{4}$

2. _____

3. $\frac{x}{x+1} + \frac{3}{x+4} = \frac{x+3}{x+4}$

3. _____

For #4-5, solve each equation by using a graphing calculator.

4. $\frac{2}{x-1} = 4$

4. _____

5. $\frac{x+2}{1-2x} = 5$

5. _____

For #6-8, write an equation of a parabola with the given parts.

6. vertex (0, 0), focus (6, 0)

6. _____

7. vertex (0, 0), focus (0, -7)

7. _____

8. vertex (0, 3), focus (-8, 3)

8. _____

9. vertex (0, 0), directrix $y = -\frac{1}{3}$

9. _____

For #10-11, identify the a.) vertex, b.) focus, and c.) directrix of the parabola with the given equation. Then, d.) graph the parabola by hand.

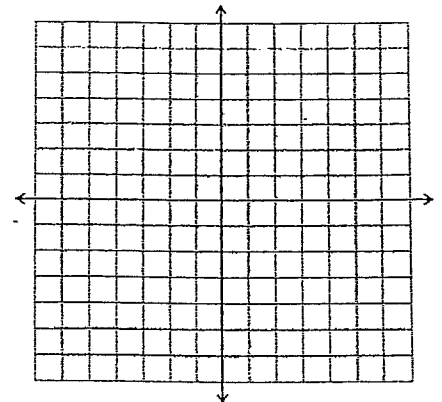
10. $y = 4x^2$

10. a.) _____

b.) _____

c.) _____

d.)



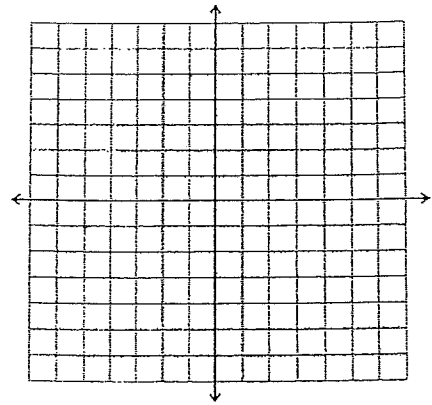
11. $y = x^2 - 6x + 11$

11. a.) _____

b.) _____

c.) _____

d.)



12. Use the information in the graph to write the equation for the parabola.

12. _____

