

Name _____



Date _____

Quadratic Equations

State the direction of opening (upward or downward) for the graph of each equation.

Enter answers
in text boxes.

1. $y = -22x^2 - 8x + 2$	2. $y = 1\frac{1}{2}x^2 - 3x + 1\frac{1}{4}$	3. $y = -17x^2 + 20\frac{2}{5}x + 3\frac{2}{5}$
4. $y = 4x^2 - 7x - 3$	5. $y = 5x^2 + 11x + 1$	6. $y = -40x^2 - 16\frac{2}{3}x + 6\frac{2}{3}$
7. $y = 3\frac{1}{3}x^2 - 3x - 1\frac{1}{3}$	8. $y = -3\frac{1}{3}x^2 - 3\frac{1}{3}x + 1\frac{1}{3}$	9. $y = -10x^2 - x + 8$
10. $y = 1\frac{1}{3}x^2 + x - 3\frac{2}{3}$	11. $y = 13\frac{1}{5}x^2 - 9\frac{3}{5}x - 14\frac{2}{5}$	12. $y = x^2 - 2x - 10$
13. $y = \frac{-1}{2}x^2 + \frac{1}{2}x + 1$	14. $y = 1\frac{1}{3}x^2 + 7\frac{1}{3}x + \frac{2}{3}$	15. $y = 21x^2 - 16\frac{1}{3}x - 14$