

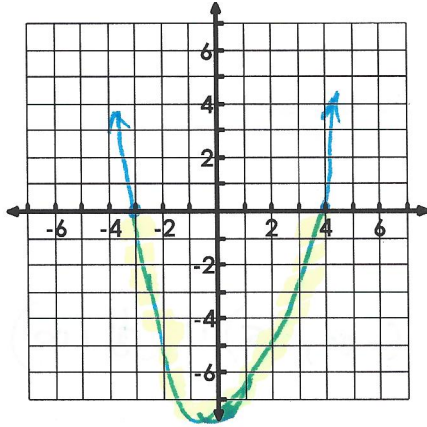
Name: Key

Date: _____

Solving Quadratic Inequalities

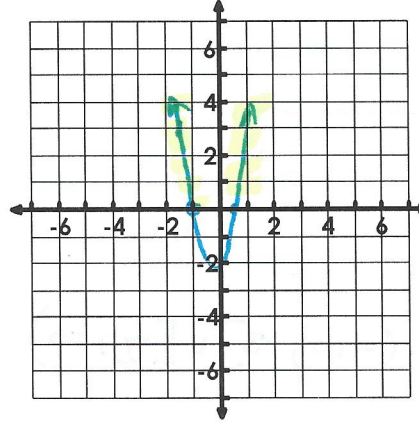
Find the solution set for each inequality:

1. $x^2 - x - 12 < 0$



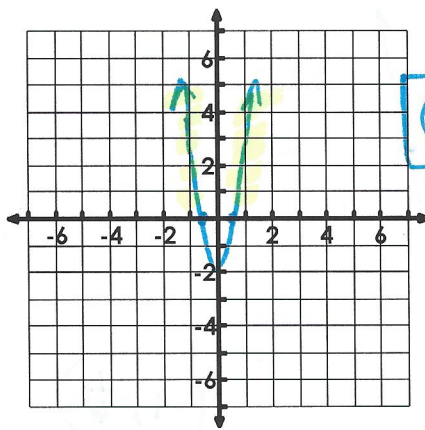
$(-3, 4)$

2. $3x^2 + 2x > 1$



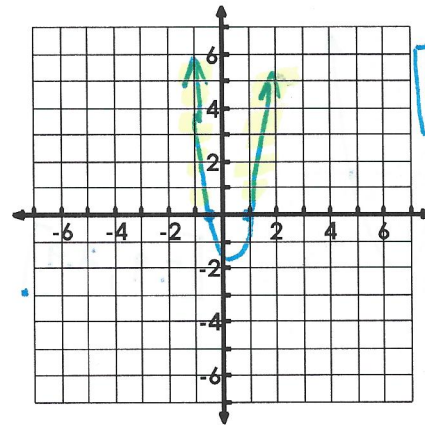
$(-\infty, -1) \cup (\frac{1}{3}, \infty)$

3. ~~number~~ $4x^2 \geq 25$



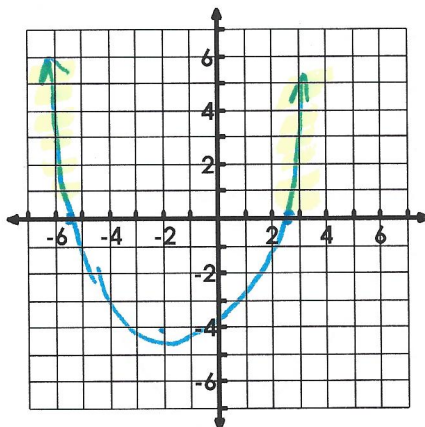
$(-\infty, -\frac{5}{2}] \cup [\frac{5}{2}, \infty)$

4. $5x^2 - 4x - 1 < 0$



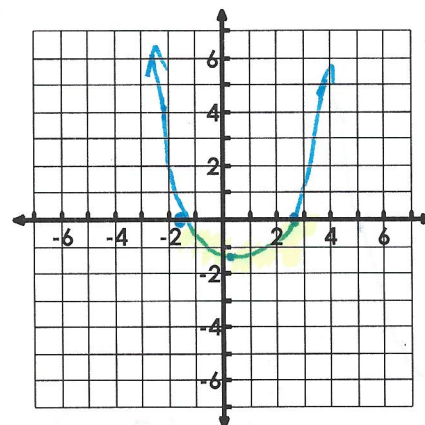
$(-\infty, -\frac{1}{5}) \cup (1, \infty)$

5. $3x^2 + 24x \geq -41$



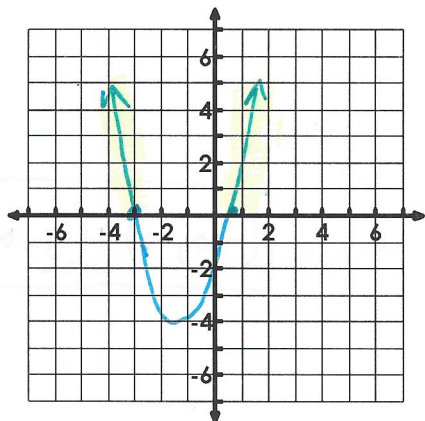
$(-\infty, -5.5] \cup [-2.5, \infty)$

6. $-x^2 + x + 5 \leq 0$



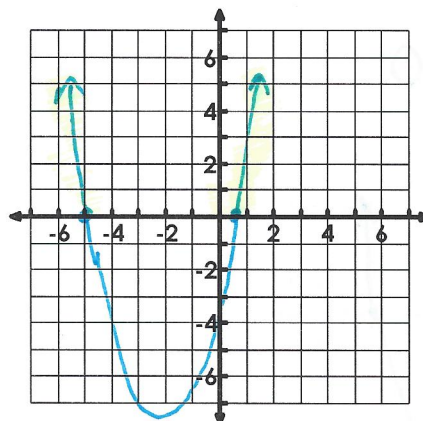
$[-1.8, 2.8]$

7. $2x^2 + 5x \geq 3$



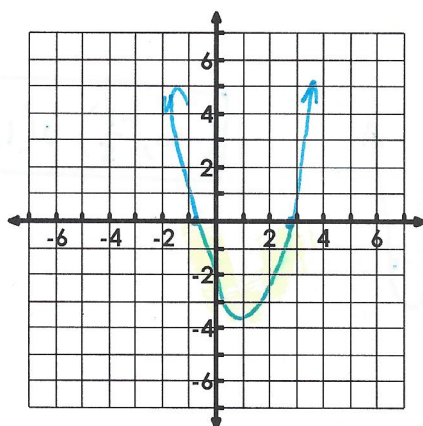
$(-\infty, -3] \cup [\frac{1}{2}, \infty)$

8. $3x^2 > -14x + 5$



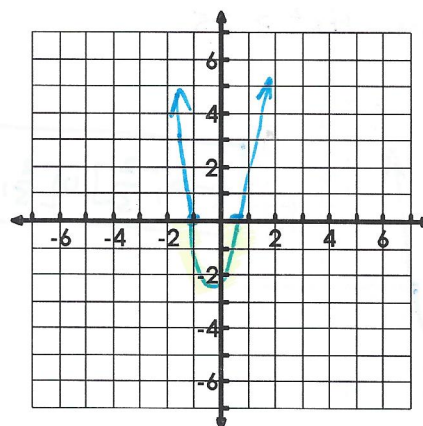
$(-\infty, -5) \cup (\frac{1}{3}, \infty)$

9. $2x^2 \leq 4x + 5$



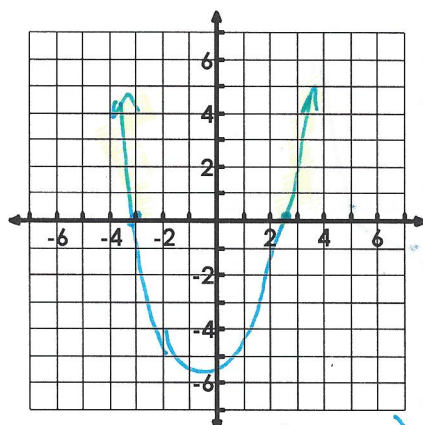
$[-.9, 2.9]$

10. $6x^2 < -5x + 1$



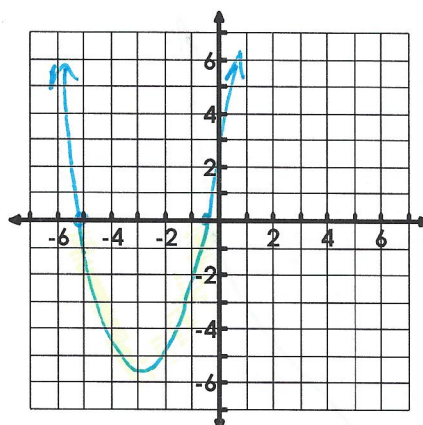
$(-1, \frac{1}{6})$

11. $2x^2 > -x + 15$



$(-\infty, -3) \cup (\frac{5}{2}, \infty)$

12. $2x^2 + 11x + 5 < 0$



$(-5, -\frac{1}{2})$