

SOLVING INEQUALITIES USING THE GRAPHER

SOLVE THE FOLLOWING INEQUALITIES: WRITE THE ANSWERS IN INTERVAL NOTATION. (You should refer to the previous worksheet to get the x-intercepts.)

1. $5X + 3X - 4 \leq 6X - 3$

2. $\frac{1}{2}X + \frac{2}{3}X \geq 12$

3. $\sqrt{5X + 6} > 3$

4. $\sqrt{3X} - \sqrt{5X - 2} > -2$ OMIT

5. $|2X + 3| + 5 < 9$

6. $|6X - 8| - 2 \leq -8$

7. $X^2 + 3X - 4 \geq 0$

8. $X(X + 2)(X - 1) > 0$

9. $5X^2 + 7 < 3X^2 + 5X$

10. $X^2 + 3 > 0$