## 10-4

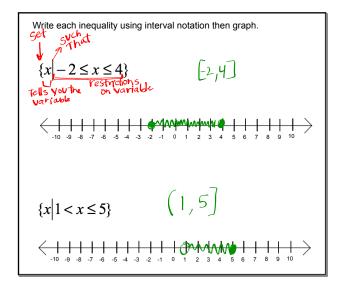
## Solving Quadratic Inequalities

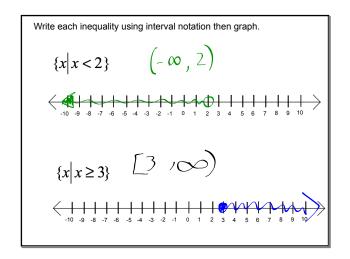
## Objectives:

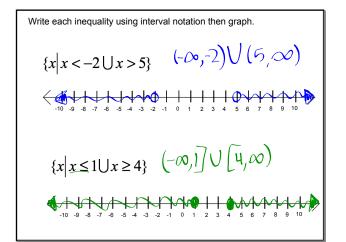
- 1. I can solve a quadratic inequality.
- 2. I can graph the answer to a quadratic inequality.
- 3. I can state my answer in set and interval notation.

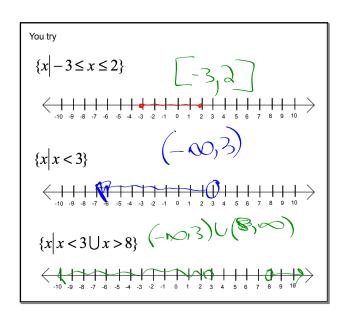
Replace the ? with <, >, or = to make the statement true.

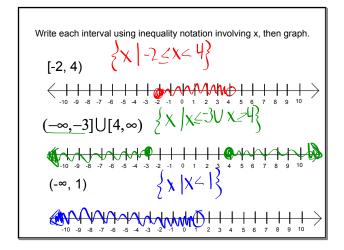
3. 
$$\frac{1}{2}$$
 ? .5

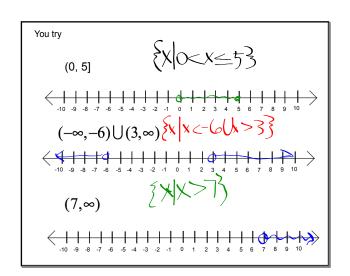


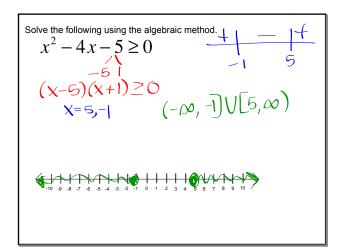


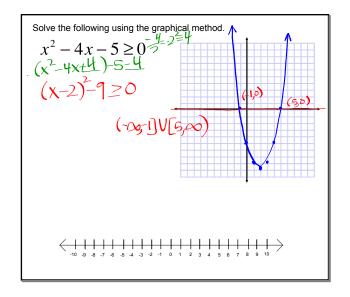


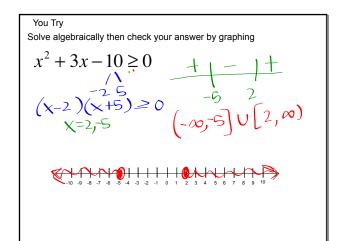


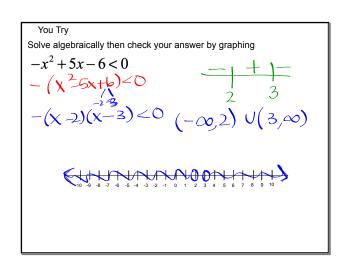


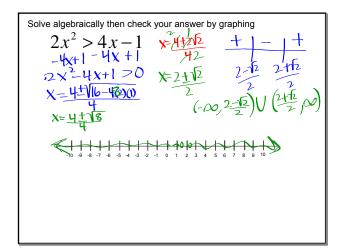


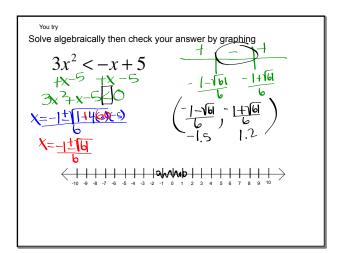












Solve algebraically then check your answer by graphing

$$y^2 + 3y + 5 \ge 0$$



Solve algebraically then check your answer by graphing

$$y^2 + 3y + 5 \ge 0$$



|  | 1 |  |  |
|--|---|--|--|
| Solve algebraically then check your answer by graphing |   |  |  |
| $x^2 + 8x + 16 > 0$                                    |   |  |  |
|  |   |  |  |
|  |   |  |  |
|  |   |  |  |
| -10 .9 .8 .7 .6 .5 .4 .3 .2 .1 0 1 2 3 4 5 6 7 8 9 10  |   |  |  |
|  |   |  |  |
|  |   |  |  |
|  |   |  |  |
|  |   |  |  |