

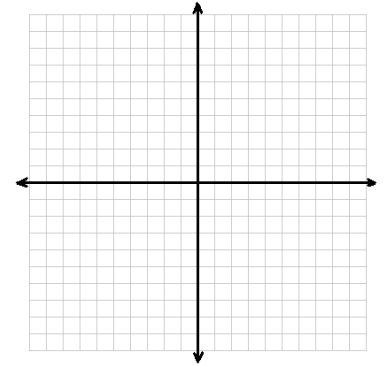
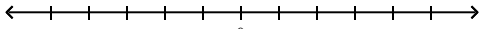
Secondary 2 Honors Day 6 HW

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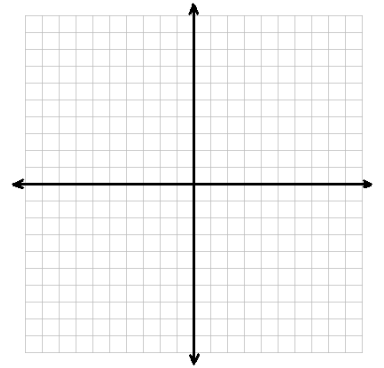
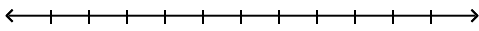
Quadratic Inequalities

Use the graph of the quadratic equation to graph the quadratic inequality on a number line and give the solutions in interval and set notation.

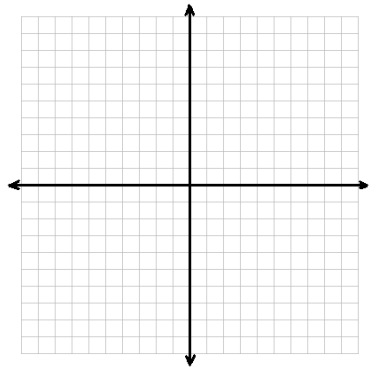
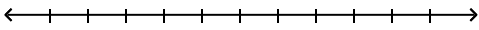
1. $(x + 3)(x - 2) < 0$



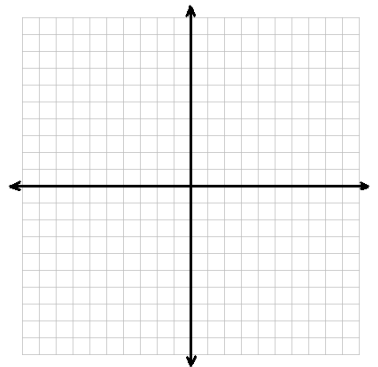
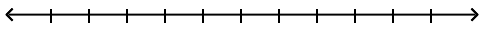
2. $(x + 4)(x - 1) \geq 0$



3. $x^2 - 25 \geq 0$



4. $x^2 + x - 12 < 0$

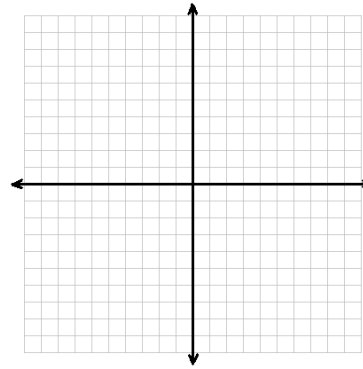
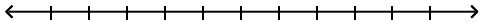


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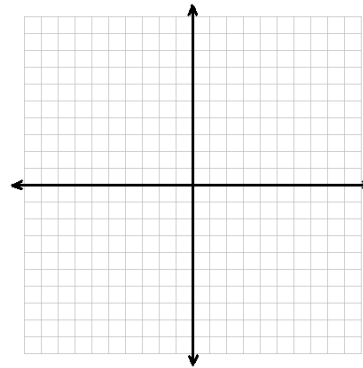
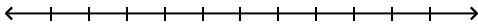
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Quadratic Inequalities

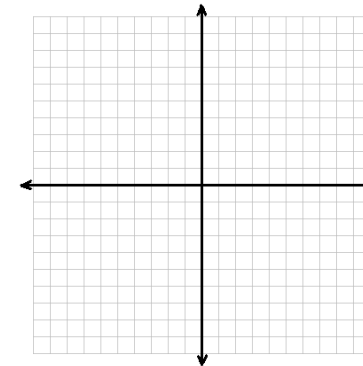
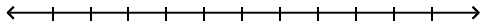
5. $-x^2 - 2x + 3 < 0$



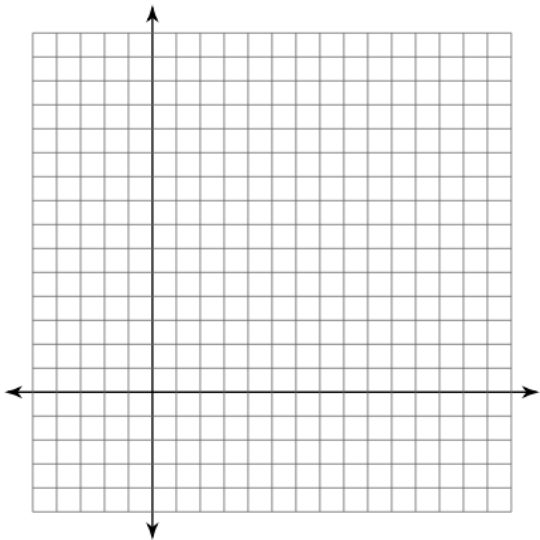
6. $x^2 + 12 \geq -7x$



7. $4(x+1)^2 < -4$



8. A baseball is thrown 19.6 meters per second (m/s) from a 58.8 meter tall cliff. The equation for the baseball's height s at time t seconds after launch is $s(t) = -4.9t^2 + 19.6t + 58.8$, where s is in meters. Graph the function below.



- What does the 58.8 in the above equation represent in the context of this problem?
- When does the baseball hit the ground?
- What is a reasonable domain for this problem?
- What is a reasonable range for this problem?