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- Directions:** For each question below, show the formulas used and all mathematical calculations involved in solving the question. Remember significant digits and units in your final answer.
- Top-fuel drag racers are able to uniformly accelerate at 12.5 m/s^2 from rest to 100.0 m/s before crossing the finish line. How much time elapses during the run?
8.0 s
 - A race car starts from rest and is accelerated uniformly to $+41 \text{ m/s}$ in 8.0 s . What is the car's displacement?
160 m
 - A motorcycle traveling at 16.0 m/s accelerates at a constant rate of 4.0 m/s^2 over 50.0 m . What is its final velocity?
25 m/s
 - A camera is accidentally dropped from the edge of a cliff and 6.0 s later hits the bottom.
a. How fast was it going just before it hits? 59 m/s
b. How high is the cliff? 180 m
 - When the traffic light turns green the car's speed increases, it then travels at a constant speed, and then brakes to slow down to a stop at the next traffic light.
a. Sketch a position-time graph to represent the car's motion.
b. Sketch a velocity-time graph to represent the car's motion.
 - A cyclist is traveling at 5.6 m/s when she starts to accelerate at 0.60 m/s^2 for a time interval of 4.0 s .
a. How far did she travel during this time interval? 27 m
b. What velocity did she attain? 8.0 m/s
 - A truck is traveling at 22.0 m/s when the driver notices a speed limit sign for the town ahead. He slows down to a speed of 14.0 m/s . He travels a distance of 125 m while he is slowing down.
a. Calculate the acceleration of the truck. -1.15 m/s^2
b. How long did it take the truck driver to change his speed? 6.94 s
 - A light plane must reach a speed of 30.0 m/s for takeoff. How long a runway is needed if the constant acceleration is 3.0 m/s^2 ?
150 m
 - A car decelerates from a speed of 25.0 m/s to rest in 5.00 s . How far did it travel in that time?
62.5 m
 - During a 30.0 s interval, the velocity of a rocket increased from 200.0 m/s to 500.0 m/s . What was the displacement of the rocket during this time interval?
 $1.05 \times 10^4 \text{ m}$

Graphing Motion Equally with Distance and Displacement

Distance is a scalar quantity that refers to "how much ground an object has covered" during its motion. Displacement is a vector quantity that refers to "how far out of place an object is"; it is the object's overall change in position.

Example: A person walks 3 m East, then 4 m South, then 3 m West, then 3 m North, then 2 m East, then 1 m South, then 1 m West, then 1 m North.

Distance: $3 + 4 + 3 + 3 + 2 + 1 + 1 + 1 = 18 \text{ m}$

Displacement: $3 \text{ m East} - 4 \text{ m South} + 3 \text{ m West} + 3 \text{ m North} + 2 \text{ m East} - 1 \text{ m South} - 1 \text{ m West} + 1 \text{ m North} = 2 \text{ m East}$

Name: _____ Score: _____

Circle the numbers

Circle the possible values that satisfy each inequality.

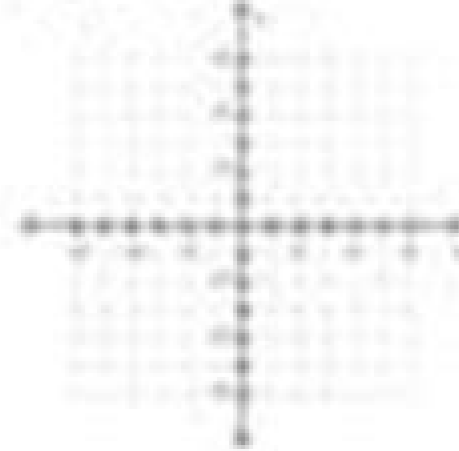
<p>1</p> $2x \geq 8$ 1 3 4 6	<p>2</p> $x - 3 < 9$ 16 5 18 10	<p>3</p> $12 > x + 6$ 2 3 6 5
<p>4</p> $\frac{x}{2} > 9$ 2 20 6 8	<p>5</p> $5x \leq 10$ 5 1 2 4	<p>6</p> $x + 5 > 9$ 2 1 7 9
<p>7</p> $x + 7 \geq 14$ 3 11 5 7	<p>8</p> $\frac{x}{3} < 5$ 17 12 6 16	<p>9</p> $16 > x + 7$ 8 10 15 12
<p>10</p> $5 > \frac{x}{5}$ 20 25 5 15	<p>11</p> $6x \leq 18$ 5 4 3 2	<p>12</p> $20 \geq 2x$ 13 10 9 8

Topic 6.3
Solving Quadratic Equations by Graphing

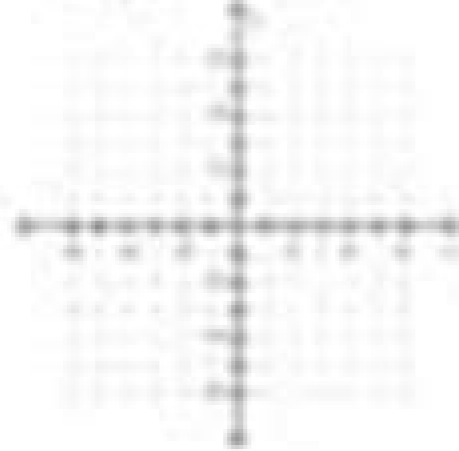
Name: _____
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- Directions:
Complete the following for each problem:
a) Graph each function.
b) Name the axis of symmetry.
c) Name the vertex.
d) Identify the solutions of the equation.

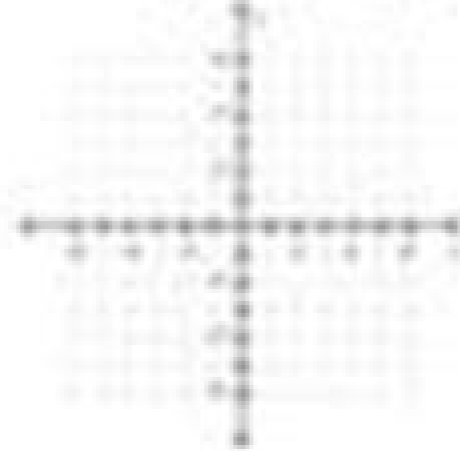
1. $f(x) = x^2 + 2x - 3$



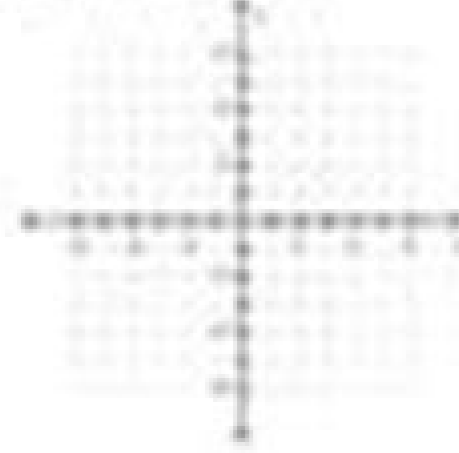
2. $f(x) = 2x^2 - 4x$



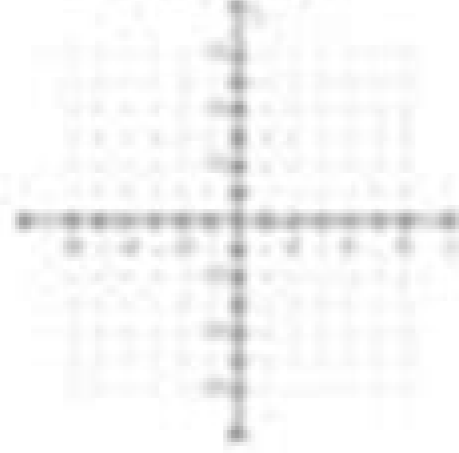
3. $f(x) = x^2 + 4x + 4$



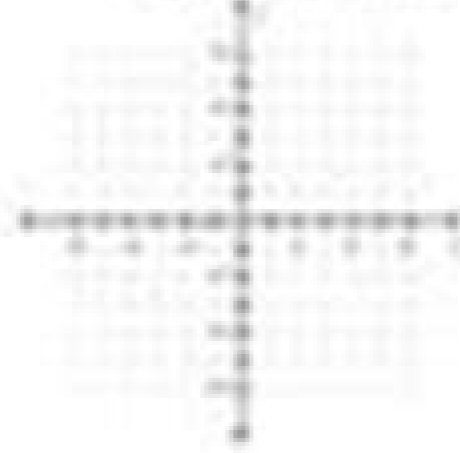
4. $f(x) = x^2 - 9x + 8$



5. $f(x) = x^2 - 4$



6. $f(x) = x^2 + 7x + 10$



Team Numbers _____ Answer Key

Linear Equations – Standard Form
Mystery Letter Team Relay #1

Answer the four questions in order (clockwise). Each question requires you to use the answer from the previous question to solve.

1 Graph the ordered pairs and draw the line that passes through the two points.
(-6, 2) and (6, 4)

2 Use the graph to write the equation of the line in slope-intercept form.
 $y = \frac{1}{6}x + 3$

3 Use the standard form of the equation to find the x- and y-intercepts. Then use the key at the bottom of the page to find the mystery letters.
x-int: (-18, 0)
y-int: (0, 3)

4 Convert the slope-intercept form of the equation to standard form.
 $x - 6y = -18$

The four mystery letters by using the key to match the x and y-intercepts are found in the corresponding boxes.

Mystery Letters	T	F
	12x + 6y = 18	12x - 6y = 18
	12x - 6y = -18	12x + 6y = -18
	12x + 6y = -18	12x - 6y = -18

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