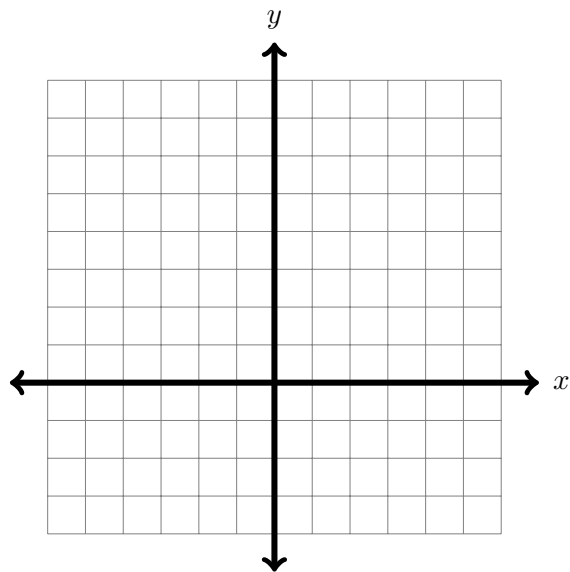| Intermediate Algebra | Name: |
| Study Guide 0 | Class: |
| Due Date: | Score: |

No Work $\Leftrightarrow$ No Points

Use Pencil Only $\Leftrightarrow$ Be Neat & Organized

1. **(2 points) Evaluate** $\sqrt{b^2 - 4ac}$ **for** $a = 5$, $b = 2$, **and** $c = -3$.

1. _____

2. **(3 points) Draw a line that contains** $A(3, -2)$ **and** $B(-3, 6)$**. Show the rise and run of its slope.**

3. **(2 points) Solve:** $2(x - 3) - 4 = -10$

3. _____

4. Simplify:

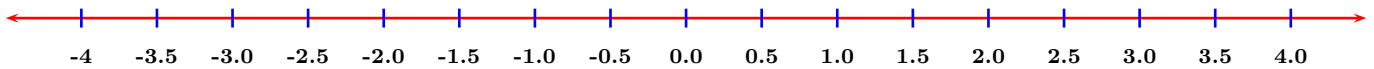(a) **(2 points)** $(2x - 3)(2x + 3)$

(a) _____

(b) **(2 points)** $(x + 5)^2$

(b) _____

(c) **(2 points)** $(-4x^2)^3$

(c) _____

5. (3 points) Graph the solution, and express your final answer in interval notation:
$2x - 7 \le 5x + 2$

5. _____

6. Factor completely:

(a) **(3 points)** $4x^2 + 20x$

(a) _____

(b) **(3 points)** $4x^2 - 81$

(b) _____

7. (3 points) Solve: $x^2 - 4x - 45 = 0$ **by factoring method.**

7. _____

Study Guide 0
Total Points: 25