

Calculus I

Name: _____

Study Guide 0

Class: _____

Due Date: _____

Score: _____

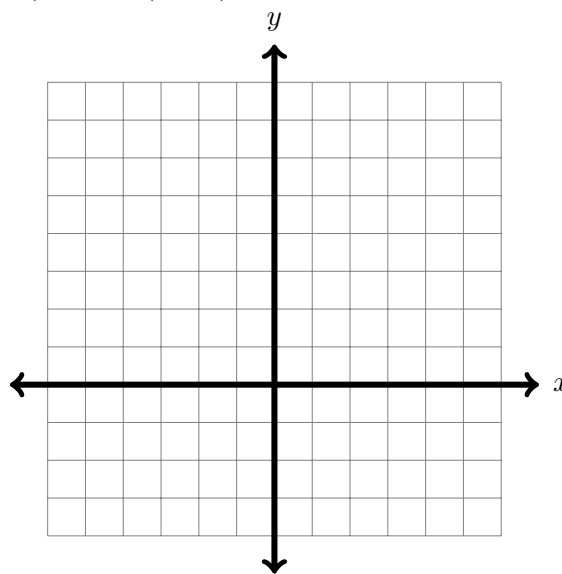
No Work \Leftrightarrow No Points

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) _____

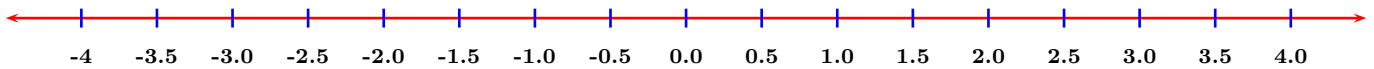
(b) (2 points) $(x + 5)^2$

(b) _____

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

(c) _____

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



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. _____