

Calculus I

Name: _____

DLA Series 1

Class: _____

Due Date: _____

Score: _____

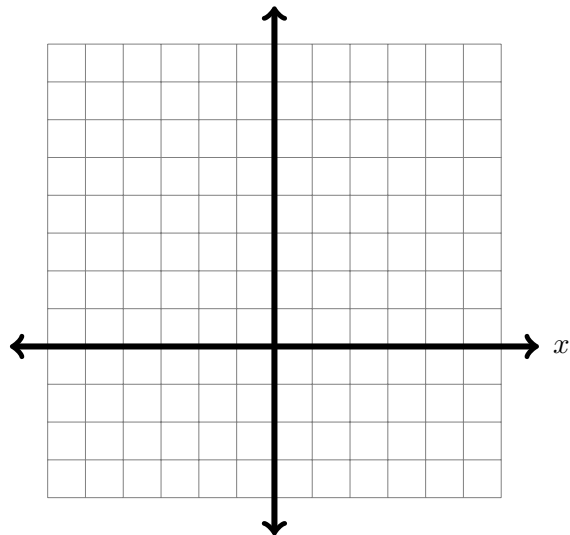
No Work $\Leftrightarrow$ No Points

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. (4 points) Draw the line segment $\overline{AB}$ for $A(3, -2)$ and $B(-3, 6)$. Find the exact distance from A to B .



2. _____

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) Solve $|x + 2| \leq 1$, then express your final answer in interval notation.

5. _____

6. Factor completely:

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

(a) _____

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

(b) _____

(c) (3 points) $x^4 - 16$

(c) _____

(d) (4 points) $2x^4 + 128x$

(d) _____