College Algebra	Name:
Study Guide 1	Class:
Due Date:	Score:

No Work \Leftrightarrow No Points

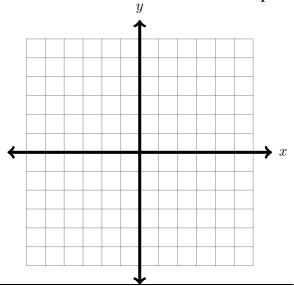
Use Pencil Only \Leftrightarrow Be Neat & Organized

Consider a line segment AB with endpoints A(-3,2) and B(3,-6).
 (a) (2 points) Find the distance between the two points.

(b) (2 points) Find the midpoint of the line segment \overline{AB} .

(c) (2 points) Find the slope of the line \overleftrightarrow{AB} .

(c) _____ (d) (2 points) Graph the line segment \overline{AB} . Show the rise and run of the slope.

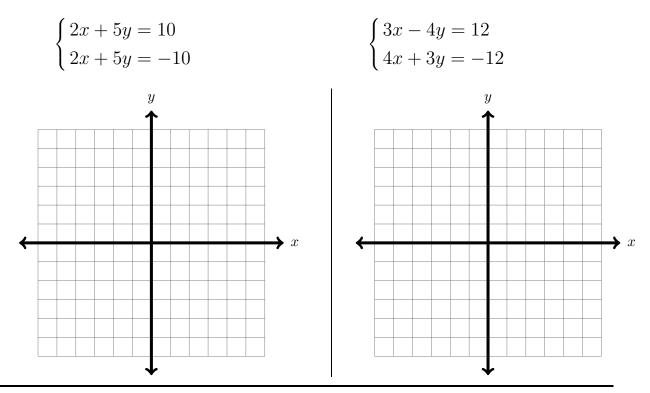


(a) _____

(b) _____

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2. (8 points) Graph both linear equations in each system, clearly mark intercepts, rise and run of the slope, or any point used in the graph:



3. Consider a line segment AB with endpoints A(-5,1) and B(1,3).
(a) (2 points) Find the distance between the two points.

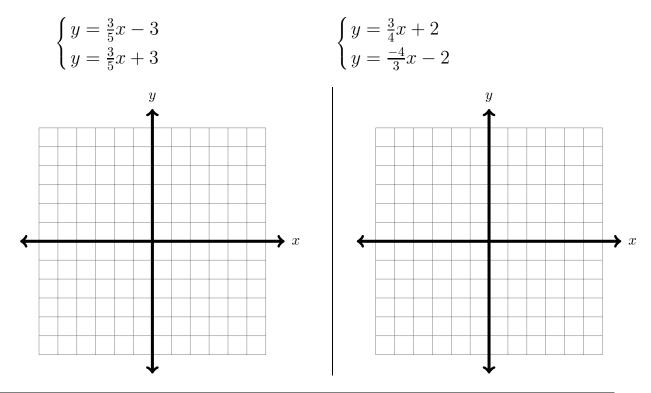
(b) (2 points) Find the midpoint of the line segment \overline{AB} .

(b) _____ (b) _____ (c) (2 points) Find the slope of the line \overleftarrow{AB} .

(c) _____

(a) _____

4. (8 points) Graph both linear equations in each system, clearly mark intercepts, rise and run of the slope, or any point used in the graph:



5. Find the slope of line \overleftarrow{AB} that contains the points A(-3,5) and (a) (2 points) B(3,-2).

(b) (2 points) B(7,5).

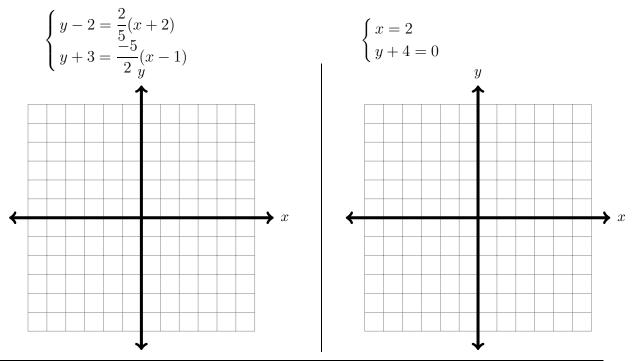
(c) (2 points) B(-3,0).

(a) _____

(b) _____

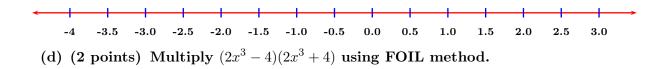
(c) _____

6. (6 points) Graph both linear equations in each system, clearly mark intercepts, rise and run of the slope, or any point used in the graph:



- 7. Algebra Review Problems:
 (a) (2 points) Solve 3(x 5) + 2 = 7 2x.
 - (a) _______ (b) (2 points) Simplify $\left(x^3\right)^2 \cdot x^4$ by using exponential rules.

(b) _____ (b) ____ (b) _____ (b) _____ (b) _____ (b) ____ (b) _____ (b) ____ (b) _____ (b) ____ (b) _____ (b) ____ (b) ___ (b) ____ (b) ____ (b) ____ (b) ____ (



(d) _____