

Review

Module 2 DCA, standard A.REI.D, page 1

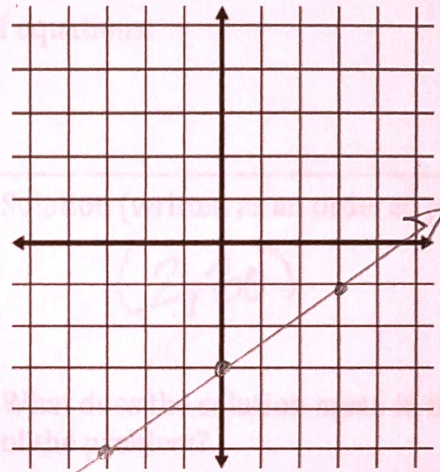
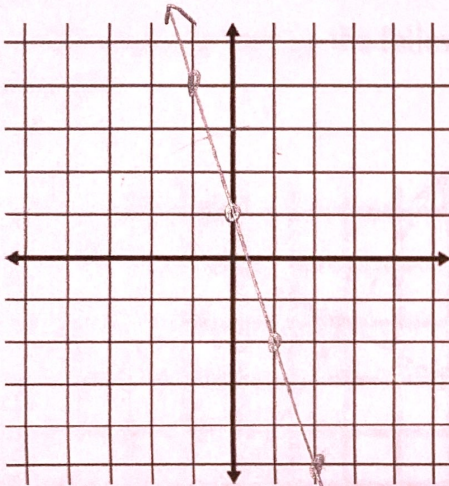
Name: _____

Period: _____ #: _____

Graph each equation, then determine (for problem 1) if the given ordered pair is a solution to the equation. Explain your answer

1) $y = -3x + 1$

2) $y = \frac{2}{3}x - 3$



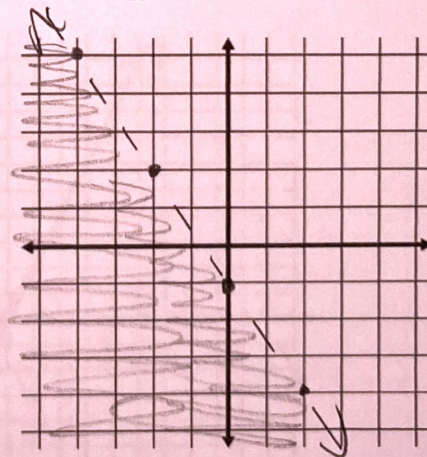
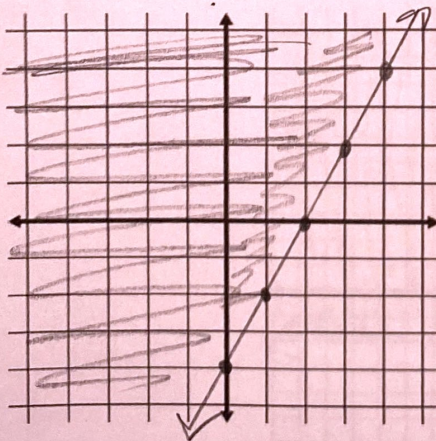
Is (2, -5) a solution? **Yes**

Why or why not? $-5 = -3(2) + 1$
 $-5 = -5$
It is on the line, or

Graph each inequality, then determine (for problem 3) if the given ordered pair is a solution to the inequality. Explain your answer.

3) $y \geq 2x - 4$

4) $y < -\frac{3}{2}x - 1$



Is (2, 5) a solution? **Yes**

Why or why not? $5 \geq 2(2) - 4$
 $5 \geq 0$
It is in the shaded region or

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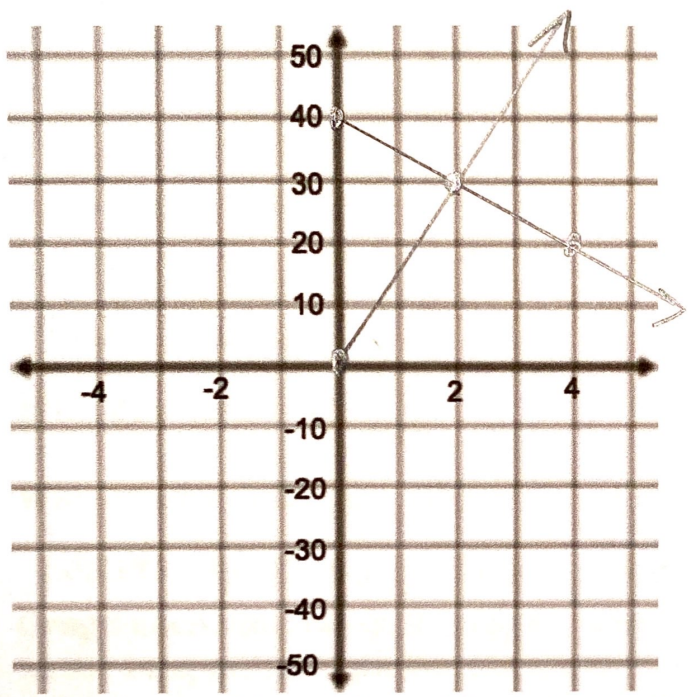
5) Graph the system of equations. Determine the solution (written as an ordered pair), then give the meaning of the solution in the context of the problem.

Kamala and Joe each have savings accounts. Joe has \$40 in savings, and is withdrawing \$5 per week. Kamala doesn't have any savings to start with, but is saving \$15 per week.

This can be represented by the following system of equations:

$$y = -5x + 40$$

$$y = 15x$$



Solution (written as an ordered pair):
 $(2, 30)$

What does the solution mean in the context of the problem?

In 2 weeks, they will each have \$30 in savings.

Exemplary - This problem will take you to Exemplary if you are Meeting on the rest of the test. Graph the solution to this system of linear inequalities.

$$y < -2x + 3$$
$$y \geq -2$$
$$y \geq 2x - 4$$

