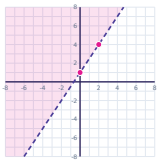
Graphing Linear Inequalities in Two Variables · 1

Write $4x + 4y < -4$ in slope-intercept form (solve for y).

Graphing Linear Inequalities in Two Variables · 2

Write the inequality shown in the graph. The boundary line is dashed.



Graphing Linear Inequalities in Two Variables · 3

To graph $x - 2y > 4$, do you shade above or below the boundary line?

Graphing Linear Inequalities in Two Variables · 4

Is (1, -3) a solution of $3x - y \leq 2$? Answer yes or no.

Graphing Linear Inequalities in Two Variables · 5

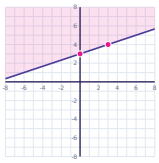
The boundary line of an inequality is dashed, has a slope of $\frac{3}{2}$ and a y-intercept of -3, and the region above the line is shaded. Write the inequality.

Graphing Linear Inequalities in Two Variables · 6

Write $-5x + 4y > -16$ in slope-intercept form (solve for y).

Graphing Linear Inequalities in Two Variables · 7

Write the inequality shown in the graph. The boundary line is solid.



Graphing Linear Inequalities in Two Variables · 8

Write $5x - 2y \leq -10$ in slope-intercept form (solve for y).

Graphing Linear Inequalities in Two Variables · 2

ANSWER

$y > 3/2x + 1$

Graphing Linear Inequalities in Two Variables · 1

ANSWER

$y < -x - 1$

Graphing Linear Inequalities in Two Variables · 4

ANSWER

no

Graphing Linear Inequalities in Two Variables · 3

ANSWER

below

Graphing Linear Inequalities in Two Variables · 6

ANSWER

$y > 5/4x - 4$

Graphing Linear Inequalities in Two Variables · 5

ANSWER

$y > 3/2x - 3$

Graphing Linear Inequalities in Two Variables · 8

ANSWER

$y \geq 5/2x + 5$

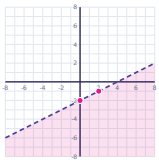
Graphing Linear Inequalities in Two Variables · 7

ANSWER

$y \geq 1/3x + 3$

Graphing Linear Inequalities in Two Variables · 9

Write the inequality shown in the graph. The boundary line is dashed.



Graphing Linear Inequalities in Two Variables · 10

To graph $4x - y < 0$, do you shade above or below the boundary line?

Graphing Linear Inequalities in Two Variables · 11

Is (-3, 1) a solution of $4x - 4y > -16$? Answer yes or no.

Graphing Linear Inequalities in Two Variables · 12

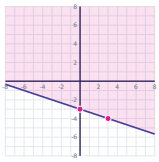
The boundary line of an inequality is solid, has a slope of $-\frac{1}{2}$ and a y-intercept of 2, and the region above the line is shaded. Write the inequality.

Graphing Linear Inequalities in Two Variables · 13

Write $-5x - 4y \leq 20$ in slope-intercept form (solve for y).

Graphing Linear Inequalities in Two Variables · 14

Write the inequality shown in the graph. The boundary line is solid.

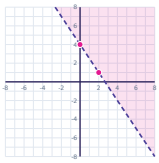


Graphing Linear Inequalities in Two Variables · 15

Write $-x - 4y \geq -20$ in slope-intercept form (solve for y).

Graphing Linear Inequalities in Two Variables · 16

Write the inequality shown in the graph. The boundary line is dashed.



Graphing Linear Inequalities in Two Variables · 10

ANSWER

above

Graphing Linear Inequalities in Two Variables · 9

ANSWER

y < 1/2x - 2

Graphing Linear Inequalities in Two Variables · 12

ANSWER

y ≥ -1/2x + 2

Graphing Linear Inequalities in Two Variables · 11

ANSWER

no

Graphing Linear Inequalities in Two Variables · 14

ANSWER

y ≥ -1/3x - 3

Graphing Linear Inequalities in Two Variables · 13

ANSWER

y ≥ -5/4x - 5

Graphing Linear Inequalities in Two Variables · 16

ANSWER

y > -3/2x + 4

Graphing Linear Inequalities in Two Variables · 15

ANSWER

y ≤ -1/4x + 5

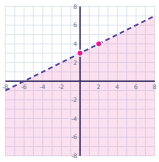
To graph -4x - 2y > -2, do you shade above or below the boundary line?

Is (-3, -4) a solution of -4x + 4y ≤ -5? Answer yes or no.

The boundary line of an inequality is dashed, has a slope of $-\frac{3}{4}$ and a y-intercept of 5, and the region below the line is shaded. Write the inequality.

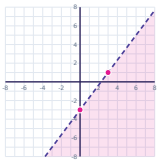
Write 6x - 2y ≥ 10 in slope-intercept form (solve for y).

Write the inequality shown in the graph. The boundary line is dashed.



Write 4x - 2y ≥ -8 in slope-intercept form (solve for y).

Write the inequality shown in the graph. The boundary line is dashed.



To graph -2x + 3y > -15, do you shade above or below the boundary line?

Graphing Linear Inequalities in Two Variables · 18

ANSWER

no

Graphing Linear Inequalities in Two Variables · 17

ANSWER

below

Graphing Linear Inequalities in Two Variables · 20

ANSWER

$y \leq 3x - 5$

Graphing Linear Inequalities in Two Variables · 19

ANSWER

$y < -3/4x + 5$

Graphing Linear Inequalities in Two Variables · 22

ANSWER

$y \leq 2x + 4$

Graphing Linear Inequalities in Two Variables · 21

ANSWER

$y < 1/2x + 3$

Graphing Linear Inequalities in Two Variables · 24

ANSWER

above

Graphing Linear Inequalities in Two Variables · 23

ANSWER

$y < 4/3x - 3$