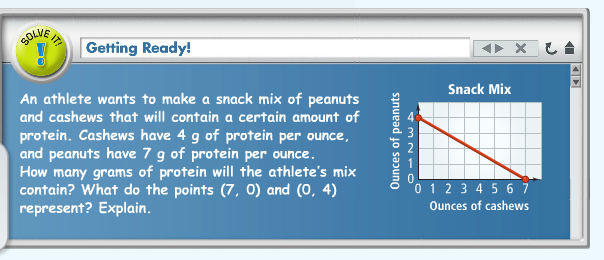
College Algebra 1

Section 5.5 – Standard Form

Starter(s):

1. Write an equation of a line in Point-Slope form that goes through point (-3,2) and has a slope of -5.
2. Write an equation of a line in Point-Slope form that goes through points (1,2) and (5,6). Then switch the equation to Slope-Intercept form.

Objective: To graph linear equations using intercepts and to write linear equations in standard form.



x-intercept:

y-intercept:

Problem 1: Finding the x- and y-intercepts

What are the x- and y-intercepts of the graph of ?

Step 1: To find the x-intercepts, substitute 0 in for y. Solve for x.

Step 2: To find the y-intercepts, substitute 0 in for x. Solve for y.

Try it!

a)

b)

Problem 2: Graphing a Line Using Intercepts

Try it!

What is the graph of ?

What is the graph of

Problem 3: Graphing Horizontal and Vertical Lines

Problem 4: Transforming to Standard Form

* Given an equation in point-slope form or y-intercept form, you can rewrite the equation in Standard Form.

What is written in standard form?

What is written in standard form?

What is written in standard form?

You try!

Hw: 5.5 p. 326 #17-22, 27-38, 52, 60

1. What are the x- and y-intercepts of the graph of
2. What is the graph of



1. What is the graph of ? What type of line is it?



1. What is written in standard form?