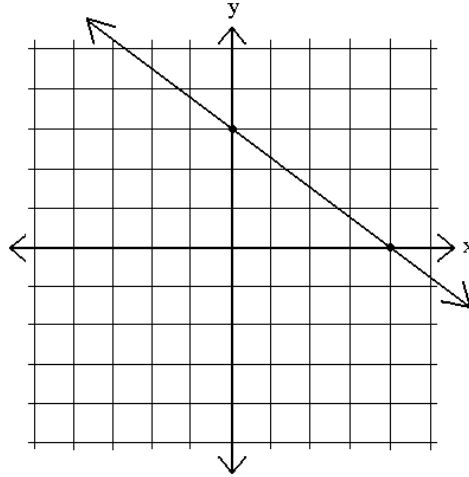**DOK 1:**   Write a standard form equation through the points (9, -2) and (3, 1).

DOK 2:   Write an equation in slope-intercept form perpendicular to the graph below through the point (-4, 6)

Now, write an equation parallel to the new line with an x-intercept of 3.

DOK 3:   The optimal running speed at 600 F is 17.6 feet per second. A person would slow down by about .3 foot per second for every 50 increase in temperature above 600 F.

Write an equation that represents this situation in point-slope form.

What is the optimal running speed if the outside temperature is 800 F?

If (-2,0) and (1,s) are two points on a line with a negative slope, what can you say about s?

In point-slope form, write an equation of the line that passes through the given points: (2w,-z) & (w,w-z)

DOK 4:   (Printed!) Pages 4-6

Jack Sprat and his wife like to dine out at their favorite restaurant, Rhymes, once a month. Their favorite menu items are the ballad salad platter (delivered with a song), Southern fried chicken pick'ens with green beans, and baked steak with potatoes. They always order two of the three items, sharing the choices. After dinner, the Sprats like to have dessert. Their three favorite desserts are ice cream, apple pie and fresh fruit. The restaurant lists the calories for each dessert, and one night the Sprats made the following observations about their favorite desserts:

• A slice of pie and the fresh fruit has 540 total calories.

• A bowl of ice cream and the fresh fruit together have 16 fewer calories than a slice of pie.

 • Two bowls of ice cream and a slice of pie totals 938 calories.

How many calories are found in each of the three desserts?