name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ block \_\_\_\_\_ Week x Week #20: 2/3 – 2/10, 2017

Solve each problem. Make sure that you show ALL WORK involved in solving the problem in order to get full credit.

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| What is the equation, in slope-intercept form, for Line 3?What is the equation, in slope-intercept form, for Line 4? | A freight elevator is being loaded with identical 76-pound boxes. The elevator can carry *no more than* 2000 pounds. The men loading the elevator weigh 425 pounds all together and they must ride the elevator with the boxes. How many boxes can be loaded on the elevator?*If* $-3+4p= -31$*, find the value of 3p.* | Simplify each expression completely:• 15 – 4(a – 5) • -5 – 3x – x – (-16)• 3d + 8(-d – 5)• -20 – 2(8 – 5y) + 6y Solve:9(x + 3) = 4x – 3  |

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| What is the slope of a line that passes through the points (0, -3) and (-4, 2)?http://t1.gstatic.com/images?q=tbn:ANd9GcSRPF9KQy6Lr2tsNhQnx-6oIhjCPYelb8jSRHrhv6HYjnlat8mw0QFind the length of the hypotenuse of a triangle with coordinates (6,1), (0,9), and (0,1) | Solve:16 – 2(5 + 6m) = -90A line passes through the point (2,-6) and has a slope of 2. Write the equation of the line in slope-intercept forms.A right triangle has a hypotenuse that is 30 cm long and a leg that is 18 cm long. What is the length of the second leg? | *A rectangle is 7 cm wide and 10 cm long. Find the length of a diagonal of the rectangle.*Given the equation: 4x + 3y = 8Find the slope of the line:Find the y-intercept of the line: |
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