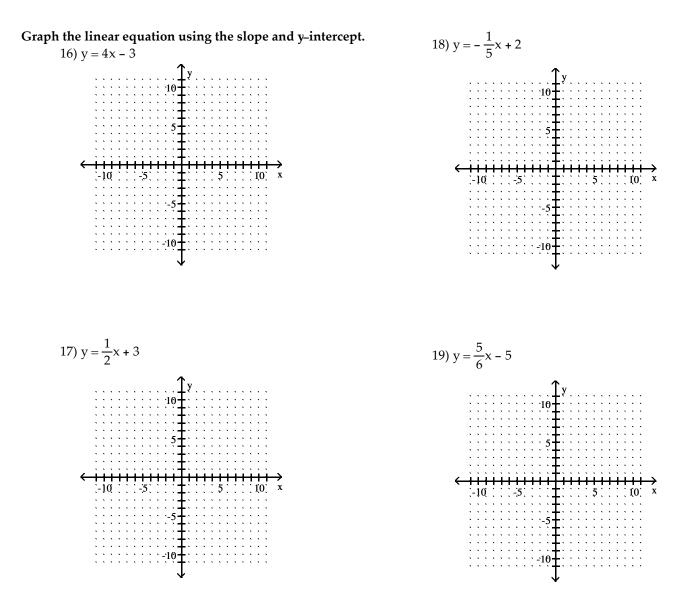
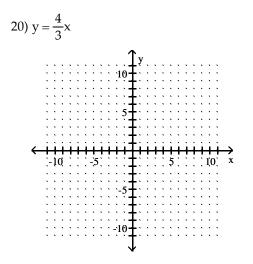
Math 084 W2010 Worksheet 4.4 v02 y = mx + b Exercises Dressler

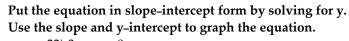
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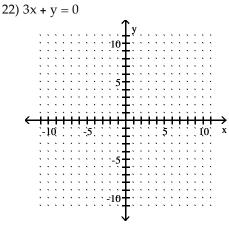
Find the slope of the line. 1) $y = 6x$	Find the y-intercept. 9) y = - 5x
2) $y = -8x$	10) y = 8x + 2
3) y = - 4x + 7	11) y = 8
4) $y = \frac{3}{4}x + 1$	12) 3x + y = 2
5) y = 5	13) 9x + y = 0
6) y = 9 - x	14) $-4y = -3x$
	15) 3x – 4y = 4
7) $-6x + y = 40$	

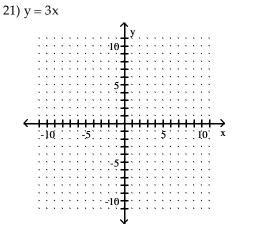
8) 2x + 4y = -14

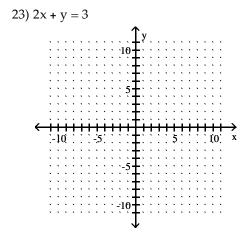


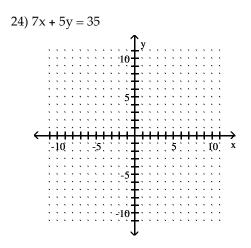


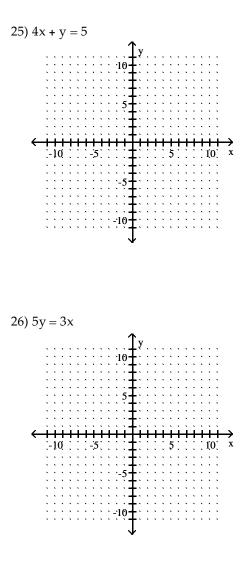










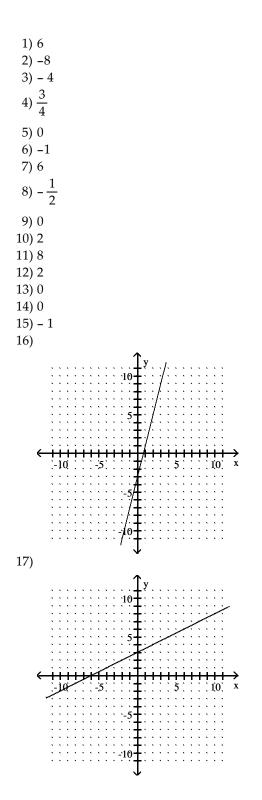


Interpret the linear equation.

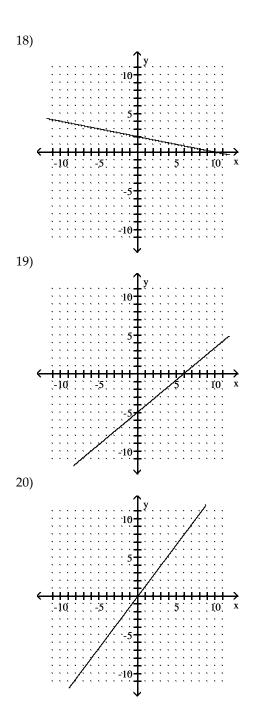
27) When a tow truck is called, the cost of the service is given by the linear function y = 2x + 55, where y is in dollars and x is the number of miles the car is towed. Find and interpret the slope and y-intercept of the linear equation.

- 28) The monthly cost of a certain long distance service is given by the linear function y = 0.07x + 4.95 where y is in dollars and x is the amount of time in minutes called in a month. Find and interpret the slope and y-intercept of the linear equation.
- 29) The amount of water in a leaky bucket is given by the linear function y = 128 - 7x, where y is in ounces and x is in minutes. Find and interpret the slope and y-intercept of the linear equation.
- 30) The altitude above sea level of an airplane just after taking off from an airport on a high plateau is given by the linear function y = 900x + 3343, where y is in feet and x is the time in minutes since take-off. Find and interpret the slope and y-intercept.
- 31) The speed of a ball dropped from a tower is given by the linear function y = 32x where y is in feet per second and x is the number of seconds since the ball was dropped. Find and interpret the slope and y-intercept of the linear equation.

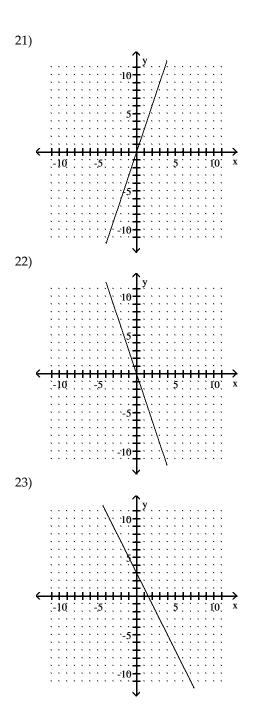
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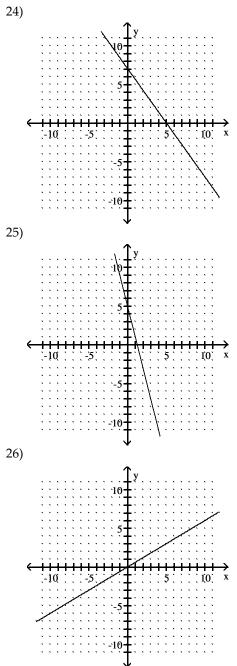
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Answer Key Testname: 04.4V02



Answer Key Testname: 04.4V02



- 27) m = 2; The cost of the service increases \$2 every mile the car is towed. b = 55; The cost of the service is \$55 if the car is not towed.
- 28) m = 0.07; The cost of the long distance service increases \$0.07 for every 1 minute called. b = 4.95; The cost of the long distance service is \$4.95 if no calls are made for the month.
- 29) m = -7; The amount of water in the bucket decreases 7 ounces every minute. b = 128; At x = 0, the amount of water in the bucket was 128 ounces.
- 30) m = 900; The altitude of the airplane increases 900 feet every minute. b = 3343; The altitude of the airport where the airplane took-off is 3343 feet above sea level.
- 31) m = 32; The speed of the ball increases 32 feet per second every second. b = 0; The speed of the ball was 0 the moment it was dropped.