

Algebra 1 Semester 1 Review

Name: KEY

Chapter 1

Write an algebraic expression for each verbal expression.

The sum of cube of a number and -14 $3n^3 - 14$	The product of 12 and a number squared $12n^2$
The difference between a number and 2 divided by 3 $\frac{n-2}{3}$	The quotient of a number and -1 added to 5 $\frac{n}{-1} + 5$

Write a verbal expression for each algebraic expression

$8n^3 + 5$ 8 times a number cubed added to five	$\frac{3+x}{5-2n}$ three plus x divided by the difference of 5 and 2 times n.
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Simplify each expression

$15w - 7w + 14w^4$ $14w^4 + 8w$	$5(y - 7) + 2y$ $5y - 35 + 2y$ $7y - 35$
$32 + 7 - 2 \cdot 5$ $32 + 7 - 10$ 29	$12x + 5x(3 + 4) + 12$ $12x + 15x + 20x + 12$ $47x + 12$

Evaluate each expression if $a = -1$, $b = 3$, and $c = -2$

$a^2 + 5c - 3b$ $(-1)^2 + 5(-2) - 3(3)$ $1 + -10 - 9$ -18	$4a(b + 5c)$ $4(-1)(3 + 5(-2))$ $-4(3 - 10)$ $-4(-7) = 28$	$b^2 + c^2 - 4a$ $3^2 - 2^2 - 4(-1)$ $9 + 4 + 4$ 17
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Identify the independent and dependent quantities in the problems below.

The stopping distance of a car and the speed of the car. I: Speed D: Stopping distance	The bank account earns 3% interest every month. I: time (months) D: Amount of account	Johnathon scores 3 points every two minutes he is in the basketball game. I: time (minutes) D: Points scored
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Determine whether the relation is a function or not and list the domain and range.

 D: -3, -1, 1, 3 R: 3, 1, 2, 4	 D: -2, -1, 0, 1, 2 R: 1, 2, 4	{ (8, 4), (6, 3), (4, 2), (2, 1), (6, 0) } NF D: 8, 6, 4, 2 R: 4, 3, 2, 1, 0
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If $f(x) = 2x + 4$ and $g(x) = x^2 + 3$, find each value

$f(-3) = 2(-3) + 4$ $f(-3) = -6 + 4$ $f(-3) = -2$	$f(m+2) = 2(m+2) + 4$ $= 2m + 4 + 4$ $= 2m + 8$	$g(-4) = (-4)^2 + 3$ $= 16 + 3$ $= 19$	$g(3p) = (3p)^2 + 3$ $= 9p^2 + 3$	$g(0) = 0^2 + 3$ $= 3$
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Chapter 2

Solve the multi-step equations (hint: use DCAM)

$30 = -5(6b + 6)$ $30 = -30b - 30$ +30 +30 $\underline{60 = -30b}$ $\underline{-30 = -30}$ $b = -2$	$-11 - 5a = 6(5a + 4)$ $-11 - 5a = 30a + 24$ -24 + 5a +5a $\underline{-35 = 35a}$ $\underline{35 = 35}$ $a = -1$	$-8(8x - 6) = -6x - 22$ $-64x + 48 = -6x - 22$ +6x +6x $\underline{-58x + 48 = -22}$ $\underline{-48 = -48}$ $\underline{-58x = 70}$ $\underline{-58 = -58}$
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Evaluate the following expressions

$ 3f - 2g + 2$ if $f = -2$ and $g = 1$ $ 3(-2) - 2(1) + 2$ $= -6 - 2 + 2$ $= -8 + 2$ $= 8 + 2$ $\boxed{10}$	$ 2d - 3n - 4$ if $n = 2$ and $d = 3$. $ 2(3) - 3(2) - 4$ $= 6 - 6 - 4$ $= \boxed{-4}$	$2 m - 3x - p$ if $m = -1$, $x = 2$, and $p = 4$ $2 -1 - 3(2) - 4$ $= 2 -1 - 6 - 4$ $= 2 -7 - 4$ $= 14 - 4$ $\boxed{10}$
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Solve each equation

$ x - 6 = 11$	$ 5x + 5 = 45$	$\frac{2 x + 3 }{2} = \frac{-12}{2}$	$\frac{6 1 - 5x - 9}{6} = \frac{57}{6}$		
$x - 6 = 11$ $x - 6 = -11$ $\cancel{x - 6} \cancel{x - 6}$ $x = 17$ $x = -5$	$x - 6 = -11$ $+6 + 6$ $x = -17$ $x = 8$	$-5 - 5$ $\cancel{ 5x } = \cancel{40}$ $5x = 40$ $5x = -40$ $x = 8$ $x = -8$	$ x + 3 = -6$ No Solution	$+9 + 9$ $\cancel{6 1 - 5x } = \cancel{66}$ $6 1 - 5x = 66$ $ 1 - 5x = 11$ $1 - 5x = 11$ $-1 -1$ $-5x = 10$ $-5 -5$ $x = -2$	$ 1 - 5x = 11$ $1 - 5x = -11$ $-1 -1$ $-5x = -12$ $-5 -5$ $x = 2$

Determine whether each pair of ratios are equivalent ratios.

$\frac{27}{45} : \frac{3}{5}$ $135 = 135$ Yes	$\frac{18}{32} : \frac{3}{4}$ $96 = 72$ No	$\frac{1.2}{3} : \frac{6}{15}$ $18 = 18$ Yes
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Solve the proportions

$\frac{4}{9} = \frac{a}{45}$ $9a = \frac{180}{9}$ $a = 20$	$\frac{9}{k+3} = \frac{3}{5}$ $3(k+3) = 45$ $3k + 9 = 45$ $\frac{3k}{3} = \frac{36}{3}$ $k = 12$	$\frac{9b-3}{9} : \frac{5b+5}{3}$ $9(5b+5) = 3(9b-3)$ $45b+45 = 27b-9$ $-27b -27b$ $18b+45 = -9$ $-45 -45$ $18b = 54$ $18 b \cancel{18} 3$
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Determine whether each percent of change is an increase or decrease and find the percent of change.

original: 40, new: 50 $50 - 40 = 10$ $\frac{10}{40} = \frac{x}{100}$ $\frac{1000}{40} = \frac{40x}{40}$ $25\% \text{ inc}$	original: 36, new: 24 $24 - 36 = -12$ $\frac{12}{36} = \frac{x}{100}$ $\frac{1200}{36} = \frac{36x}{36}$ $33.3\% \text{ dec}$	original: 72, new: 60 $60 - 72 = -12$ $\frac{-12}{72} = \frac{x}{100}$ $\frac{1200}{72} = \frac{72x}{72}$ $16.67\% \text{ dec}$
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Find the total price of each item.

Boots \$64, tax 7%. $.07 \times 64 = 4.48$ $\$68.48$	Jacket \$129, discount 20%. $129 \times .2 = 25.8$ $\$103.2$	Hockey skates \$199, tax. 5.24%. $199 \times .0524$ 10.43 $\$209.43$
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Solve each formula or equation for the indicated variable.

$3x + 2y = 9$, for y	$m = \frac{2}{5}y + n$, for y	$7d - 3c = f + 2d$, for d
$\underline{-3x - 3x}$ $\frac{2y}{2} = \frac{-3x + 9}{2}$ $y = \frac{-3x + 9}{2}$	$\underline{-n - n}$ $\frac{5(m-n)}{5} = \frac{2}{5}y(\frac{5}{2})$ $\frac{5m - 5n}{5} = y$	$\underline{-2d - 2d}$ $\underline{5d - 3c = 8}$ $+3c +3c$ $\underline{\frac{5d}{5} = \frac{f+3c}{5}}$

Dimensional analysis

- a. If the length of a rope is 20 inches, how many millimeters is it?

$$20 \text{ inches} \cdot \frac{2.54 \text{ cm}}{1 \text{ inch}} \cdot \frac{10 \text{ mm}}{1 \text{ cm}} = 508 \text{ mm}$$

- b. Every day Joe drinks 3 cups of milk a day, how many gallons of milk does he have to buy a week?

$$\frac{3 \text{ cups}}{1 \text{ Day}} \cdot \frac{8 \text{ ounces}}{1 \text{ cup}} \cdot \frac{1 \text{ gallon}}{128 \text{ oz}} \cdot \frac{7 \text{ days}}{1 \text{ wk}} = 1.3 \text{ gallons}$$

- c. Mrs. Oakden ran out of gas and needs to get 3 gallons of gasoline, but only has a water bottle in her car that measures 11 ounces, how many water bottles full of gas does she need?

$$3 \text{ gallons} \cdot \frac{128 \text{ oz}}{1 \text{ gallon}} \cdot \frac{1 \text{ water bottle}}{11 \text{ oz}} = 349 \text{ water bottles}$$

Weighted Averages

- a. A lab technician has 40 gallons of 15% iodine solution. How many gallons of a 40% solution must he add to make a 20% iodine solution?

$$\begin{array}{c|c} 15 & 40 \\ \hline 40 & x \\ \hline 20 & 40+x \end{array}$$

$$15(40) + .4(x) = .2(40+x)$$

$$60 + 4x = 8 + .2x$$

$$\underline{-60 - 2x}$$

$$\frac{.2x = 2}{.2 .2} \quad x = 10 \text{ gallons}$$

- b. One type of antifreeze is 40% glycol, and another type of antifreeze is 60% glycol. How much of each kind should be used to make 100 gallons of antifreeze that is 48%?

$$\begin{array}{c|c} .4 & x \\ \hline .6 & 100-x \\ \hline .48 & 100 \end{array}$$

$$.4x + .6(100-x) = .48(100)$$

$$.4x + 60 - .6x = 48$$

$$\underline{-40 - 40}$$

$$\frac{-.2x = -12}{-.2 -.2} \quad 60 = x$$

60 gallons of 40%
40 gallons of 60%

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Chapter 3

Find the x and y intercepts of each function.

$y = 3x + 5$	$2x - 3y = 18$	$y = \frac{1}{3}x + 5$
$0 = 3x + 5$ $-5 \quad -5$ \hline $\frac{-5}{3} = \frac{3x}{3}$ $x = -\frac{5}{3}$	$y \text{ int } 5$ $x \text{ int } -\frac{5}{3}$ $2(0) - 3y = 18$ $-3y = 18$ $y = -6$ $\frac{2x}{2} = \frac{18}{2}$ $x = 9$	$y \text{ int } 5$ $x \text{ int } -15$ $0 = \frac{1}{3}x + 5$ $-5 \quad -5$ \hline $-\frac{5}{3} = \frac{1}{3}x(3)$

Determine the slope of the line that passes through the points $(5, 8)$ and $(-3, 7)$

$(5, 8)$ and $(-3, 7)$	$(6, -3)$ and $(6, 4)$	$(5, -2)$ and $(3, -2)$	$(5, 7)$ and $(-3, 7)$
$\frac{8-7}{5+3} = \frac{1}{8}$	$\frac{-3-4}{6-6} = \frac{-7}{0}$ undefined	$\frac{-2+2}{5-3} = \frac{0}{2}$ 0	$\frac{7-7}{5+3} = \frac{0}{8}$ 0

Suppose y varies directly as x . Write a direct variation equation that relates x and y . Then solve.

If $y=15$ when $x=2$, find y when $x=8$	If $y=-6$ when $x=9$, find x when $y=-3$	If $y=4$ when $x=-4$, find y when $x=7$
$\frac{15}{2} = \frac{k(2)}{2}$ $7.5 = k$ $y = 7.5x$ $y = 7.5(8)$ $y = 60$	$\frac{-6}{9} = \frac{k(9)}{9}$ $-\frac{2}{3} = k$ $y = -\frac{2}{3}x$ $-3 = -\frac{2}{3}x(-\frac{3}{2})$ $\frac{9}{2} = x$	$\frac{4}{-4} = \frac{k(-4)}{-4}$ $-1 = k$ $y = -1x$ $y = -1(7)$ $y = -7$

Write an equation that describes the relation.

x 0 1 2 3 4 y -5 2 9 16 23 $+7$ $M = 7$ $y \text{ int } 5$	x 1 2 3 4 5 y 1 3 5 7 9 $2 = M - 1 = y \text{ int}$	x 1 2 3 4 5 y 3 5 7 9 11 $y \text{ int } 1$ slope 2 $y = 2x + 1$
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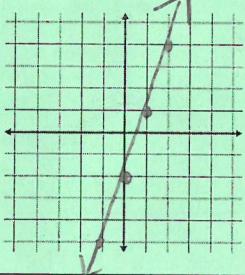
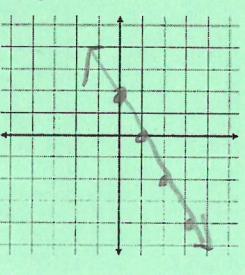
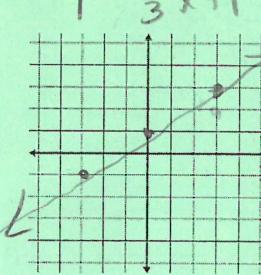
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Write the equation for the nth term of the arithmetic sequence and find the specific term.

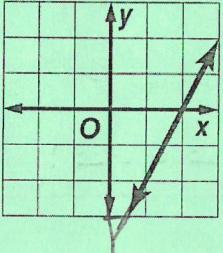
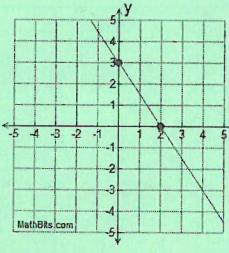
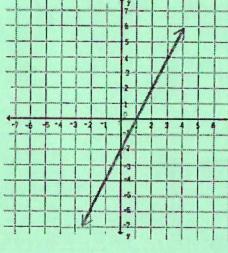
0, -15, -30, -45, ... 12 th term $d = -15$ $a_n = 0 + (n-1)(-15)$ $a_n = -15n + 15$ $a_{12} = -15(12) + 15$ -165	5, 8, 11, 14, ... 21 st term $d = 3$ $a_n = 5 + (n-1)3$ $5 + 3(n-1)$ $a_n = 3n + 2$ $a_n = 3(21) + 2 = 65$	-40, -32, -24, -16, ... 11 th term $d = 8$ $a_n = -40 + (n-1)8$ $-40 + 8(n-1)$ $a_n = 8n - 48$ $a_{11} = 8(11) - 48$ $a_{11} = 40$	1.4, 1.2, 1.0, ... 13 th term -2 $a_n = 1.4 + (n-1)(-2)$ $1.4 - 2(n-1)$ $a_n = -2n + 1.4$ $a_{13} = -2(13) + 1.4$ $-26 + 1.4$ $\boxed{-12}$
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Chapter 4

Write the equation of the line with the information given, and graph.

Slope: 3, y-intercept: -2 Equation: $y = 3x - 2$ 	Slope: -2, y-intercept: 2 Equation: $y = -2x + 2$ 	Slope: $\frac{2}{3}$, y-intercept: 1 Equation: $y = \frac{2}{3}x + 1$ 
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Determine the equation of the line graphed.

 $b = -4$ $m = 2$ Equation: $y = 2x - 4$	 $b = 3$ $m = -\frac{3}{2}$ Equation: $y = -\frac{3}{2}x + 3$	 $b = -2$ $m = 2$ Equation: $y = 2x - 2$
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Write an equation of a line that passes through the given point and has the given slope.

(1, 2), slope 3 $2 = 3(1) + b$ $2 = 3 + b$ $3 - 3$ $-1 = b$ $y = 3x - 1$	(2, -6), slope -4 $-6 = -4(2) + b$ $-6 = -8 + b$ $+8 + 8$ $2 = b$ $y = -4x + 2$	(-3, -1), slope $2/5$ $-1 = \frac{2}{5}(-3) + b$ $-1 = -\frac{6}{5} + b$ $\frac{5}{5} = -\frac{6}{5} + b$ $\frac{11}{5} = b$ $y = \frac{2}{5}x + \frac{11}{5}$	(5, -2), slope $1/3$ $-2 = \frac{1}{3}(5) + b$ $-2 = \frac{5}{3} + b$ $-\frac{6}{3} = \frac{5}{3} + b$ $-\frac{11}{3} = b$ $y = \frac{1}{3}x - \frac{11}{3}$
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$$\frac{1}{5} = b$$

$$y = \frac{2}{5}x + \frac{1}{5}$$

$$y = \frac{1}{3}x - \frac{11}{3}$$

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Write an equation of a line that passes through the given points

$$(2, -1) (5, 2)$$

$$\frac{-1-2}{2-5} = \frac{-3}{-3} = 1$$

$$2 = 1(5) + b$$

$$\frac{2-5}{-3} = b$$

$$y = x - 3$$

$$(-4, 3) (1, 13)$$

$$\frac{3-13}{-4-1} = \frac{-10}{-5} = 2$$

$$13 = 2(1) + b$$

$$\frac{13-2}{2} = b$$

$$11 = b$$

$$y = 2x + 11$$

$$(3, 5) (5, 6)$$

$$\frac{5-6}{3-5} = \frac{-1}{-2} = \frac{1}{2}$$

$$6 = \frac{1}{2}(5) + b$$

$$\frac{6-5}{2} = b$$

$$3.5 = b$$

$$y = \frac{1}{2}x + 3.5$$

$$(2, 4) (4, 7)$$

$$\frac{4-7}{2-4} = \frac{-3}{-2} = \frac{3}{2}$$

$$7 = \frac{3}{2}(4) + b$$

$$\frac{7-6}{2} = b$$

$$1 = b$$

$$y = \frac{3}{2}x + 1$$

Write each equation in standard form

$$y - 7 = -3(x + 1)$$

$$\frac{y-7}{-3} = \frac{-3x-3}{-3}$$

$$y = -3x + 4$$

$$3x + y = 4$$

$$y + 3 = 5(x - 1)$$

$$\frac{y+3}{5} = \frac{5x-5}{5}$$

$$y = 5x - 8$$

$$-5x + y = -8$$

$$5x - y = 8$$

$$y + 9 = \frac{1}{2}(x - 3)$$

$$\frac{2y+18}{2} = \frac{x-3}{2}$$

$$-x + 2y = -2$$

$$x - 2y = 21$$

$$y + 4 = -\frac{4}{5}(x - 3)$$

$$\frac{5y+20}{-4} = \frac{-4(x-3)}{-4}$$

$$5y + 20 = -4(x - 3)$$

$$5y + 20 = -4x + 12$$

$$4x + 5y = -8$$

Write each equation in slope intercept form.

$$y - 2 = 3(x - 5)$$

$$\frac{y-2}{3} = \frac{3x-15}{3}$$

$$y = 3x - 13$$

$$y - 12 = -2(x - 3)$$

$$\frac{y-12}{-2} = \frac{-2x+6}{-2}$$

$$y = -2x + 18$$

$$y + 3 = \frac{1}{2}(x - 2)$$

$$\frac{y+3}{\frac{1}{2}} = \frac{\frac{1}{2}x-1}{\frac{1}{2}}$$

$$y = \frac{1}{2}x - 4$$

Write an equation in slope intercept form for the line that passes through the given point and is parallel to the graph of each equation.

$$(2, 5), \quad y = x - 3 \quad m = 1$$

$$5 = 1(2) + b$$

$$5 = 2 + b$$

$$\frac{5-2}{2-2} = b$$

$$3 = b$$

$$y = 1x + 3$$

$$(0, -3), \quad y = 3x + 5$$

$$-3 = 3(0) + b$$

$$-3 = b$$

$$y = 3x - 3$$

$$(-4, 1), \quad 2x + y = -6$$

$$\frac{-2x-2}{-2} = \frac{-6}{-2}$$

$$y = -2x - 6$$

$$1 = -2(-4) + b$$

$$1 = 8 + b$$

$$\frac{1-8}{8-8} = b$$

$$-7 = b$$

$$y = -2x - 7$$

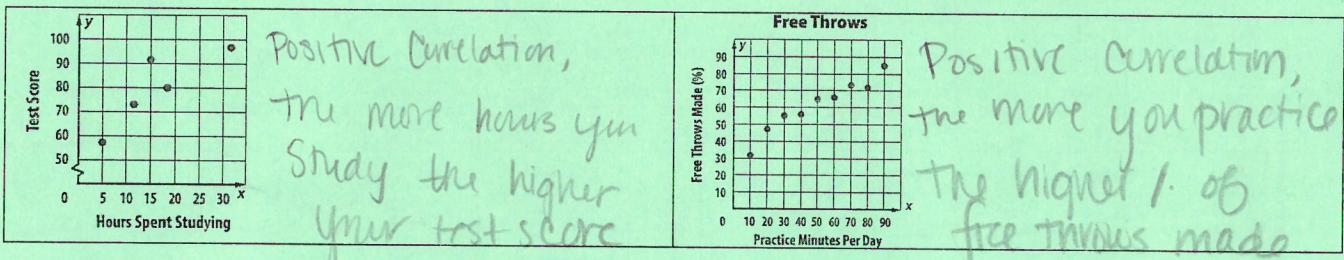
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Write an equation in slope intercept form for the line that passes through the given point and is perpendicular to the graph of each equation.

(2,4), $y = \frac{1}{3}x + 4$ $m = -3$ $4 = -3(2) + b$ $4 = -6 + b$ $+b +b$ $10 = b$ $\boxed{y = -3x + 10}$	(3,0), $y = -\frac{1}{2}x + 3$ $m = 2$ $0 = 2(3) + b$ $0 = 6 + b$ $-b -b$ $-6 = b$ $\boxed{y = 2x - 6}$	(1,6), $2x + y = -4$ $-2x - 2x$ $\underline{\underline{y = -2x - 4}}$ $6 = \frac{1}{2}(1) + b$ $6 = \frac{1}{2} + b$ $-\frac{1}{2} - \frac{1}{2}$ $5.5 = b$ $\boxed{y = \frac{1}{2}x + 5.5}$
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Determine whether the graph shows a positive, negative, or no correlation, explain what it means.



A scatterplot of data compares the number of years since a business has opened its annual number of sales. It contains the points (2,650) and (5, 1280). Write an equation in slope intercept form for the line of best fit.

$$\frac{1280-650}{5-2} = \frac{630}{3} = 210$$

$$650 = 210(2) + b$$

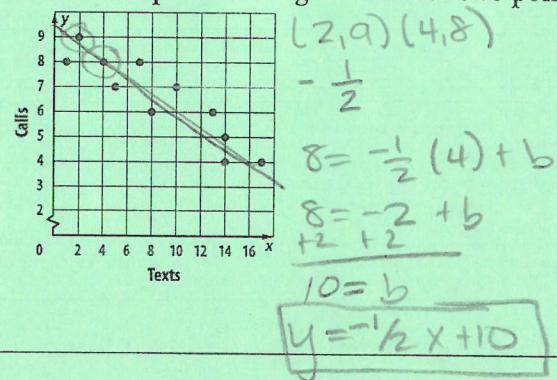
$$650 = 420 + b$$

$$-420 -420$$

$$230 = b$$

$$\boxed{y = 210x + 230}$$

Draw a line of best fit for the data and find the line of best fit equation using the closest two points.



Find the inverse of the relations and function.

X	Y
-4	2.7
-1	3.8
0	4.1
3	7.2

X	Y
2.7	-4
3.8	-1
4.1	0
7.2	3

$$\{(7, 3.5), (6.2, 8), (-4, 2.7), (-12, 1.4)\}$$

$$\{(3.5, 7), (8, 6.2), (2.7, -4), (-12, 1.4)\}$$
 $f(x) = \frac{5}{11}x + 10$ $y = \frac{5}{11}x + 10$ $x = \frac{5}{11}y + 10$ $\underline{-10}$ $\frac{11}{5}(x - 10) = \frac{5}{11}y(\frac{11}{5})$ $\frac{11}{5}x - 22 = y$ $f^{-1}(x) = \frac{11}{5}x - 22$ |

<table border="1"> <thead> <tr> <th>X</th><th>Y</th></tr> </thead> <tbody> <tr> <td>-4</td><td>2.7</td></tr> <tr> <td>-1</td><td>3.8</td></tr> <tr> <td>0</td><td>4.1</td></tr> <tr> <td>3</td><td>7.2</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th>X</th><th>Y</th></tr> </thead> <tbody> <tr> <td>2.7</td><td>-4</td></tr> <tr> <td>3.8</td><td>-1</td></tr> <tr> <td>4.1</td><td>0</td></tr> <tr> <td>7.2</td><td>3</td></tr> </tbody> </table> $\{(7, 3.5), (6.2, 8), (-4, 2.7), (-12, 1.4)\}$ $\{(3.5, 7), (8, 6.2), (2.7, -4), (-12, 1.4)\}$	X	Y	-4	2.7	-1	3.8	0	4.1	3	7.2	X	Y	2.7	-4	3.8	-1	4.1	0	7.2	3	$f(x) = \frac{5}{11}x + 10$ $y = \frac{5}{11}x + 10$ $x = \frac{5}{11}y + 10$ $\underline{-10}$ $\frac{11}{5}(x - 10) = \frac{5}{11}y(\frac{11}{5})$ $\frac{11}{5}x - 22 = y$ $f^{-1}(x) = \frac{11}{5}x - 22$
X	Y																				
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4.1	0																				
7.2	3																				

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$$f(x) = 3x + 8$$

$$x = 3y + 8$$

$$\frac{x-8}{3} = \frac{3y}{3}$$

$$f^{-1}(x) = \frac{x-8}{3}$$

$$f(x) = -\frac{1}{4}x + 2$$

$$x = -\frac{1}{4}y + 2$$

$$-2 = -\frac{1}{4}y + 2$$

$$-4x = -\frac{1}{4}y(-4)$$

$$-4x + 8 = y$$

$$f^{-1}(x) = -4x + 8$$

$$f(x) = -4x - 12$$

$$x = -4y - 12$$

$$+12 \quad +12$$

$$x + 12 = -4y$$

$$-11 \quad -4$$

$$\frac{-1}{4}x - 3 = y$$

$$f^{-1}(x) = -\frac{1}{4}x - 3$$

Chapter 5

Solve the inequalities and graph

$$3 < -5n + 2n$$

$$3 < -3n$$

$$\frac{3}{3} > -3n$$

$$-1 > n$$

$$-3 - 6(4x + 6) > -111$$

$$-3 - 24x - 36 > -111$$

$$-24x - 39 > -111$$

$$+39 \quad +39$$

$$\frac{-24x}{-24} > \frac{-72}{-24}$$

$$x < 3$$

$$-138 \geq -6(6b - 7)$$

$$-138 \geq -36b + 42$$

$$-42 \quad -42$$

$$-180 \geq \frac{-36b}{-36}$$

$$5 \leq b$$

$$-8x + 2x - 16 \leq -5x + 7x$$

$$-6x - 16 \leq 2x$$

$$+6x \quad +6x$$

$$-\frac{16}{8} \leq \frac{8x}{8}$$

$$-2 \leq x$$

$$3(p - 3) - 5p > -3p - 6$$

$$3p - 9 - 5p > -3p - 6$$

$$-2p - 9 > -3p - 6$$

$$+3p \quad +3p$$

$$p - 9 > -6$$

$$+9 \quad +9$$

$$p > 3$$

$$28 - 7x \leq -4(-7x - 7)$$

$$28 - 7x \leq 28x + 28$$

$$-28x - 28x \leq 28$$

$$-56x \leq 28$$

$$\frac{-56x}{-56} \leq \frac{28}{-56}$$

$$x \geq 0$$

Solve the compound inequalities and graph

$$m - 3 < 6 \text{ and } m + 2 > 4$$

$$\frac{+3 + 3}{m < 9} \quad \frac{-2 - 2}{m > 2}$$

$$-4 < -2t - 6 < 8$$

$$+6 \quad +6 \quad +4$$

$$\frac{2 < -2t < 14}{-2 \quad -2}$$

$$-1 > t > -7$$

$$3x + 2 \leq 11 \text{ or } \frac{5x}{5} > 22$$

$$\frac{-2 - 2}{3x \leq 9} \quad \frac{5}{5} x > 4.4$$

$$\frac{x < 3}{x > 4.4}$$

$$-3w + 4 > -8 \text{ and } 2w - 11 > -19$$

$$\frac{-4 - 4}{-3w > -12} \quad \frac{+11 + 11}{2w > -8}$$

$$\frac{-4}{-3} \quad \frac{2}{2} w > -4$$

$$w < 4 \quad w > -4$$

$$-11 \leq 2h - 3 \leq 13$$

$$+3 \quad +3 \quad +3$$

$$\frac{-8 \leq 2h \leq 16}{2 \quad 2}$$

$$-4 \leq h \leq 8$$

$$y - 8 < -3 \text{ or } y + 5 > 19$$

$$\frac{+8 + 8}{y < 5} \quad \frac{-5 - 5}{y > 14}$$

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