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Date:

PERIODS ___

Chapter 5 Review



Write an equation of the line with a slope of -4 and a y-intercept of 1.

2. Write a slope-intercept equation of the line that passes through the given points. (-9, 1), (0, -8)

STEPI:
$$M = \frac{\Delta Y}{\Delta x} = \frac{1+8}{-9-0} \circ R \frac{-8-1}{0+9} = M=-1$$

STEP 2: Pick A POINT
$$(0, -8)$$
 Pick $(-9, 1)$
 (570) P/S $(-9, 1)$
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Pick
$$(-9,1)$$

 $y-1=-1(x+9)$
 $y-1=-x-9$
 $y=-x-8$

OVER

An electronics game store sells used games for \$12.99 with a \$20 membership fee. Write an equation that gives the total cost to become a member and buy games as a function of the number of games that are purchased. Then find the cost for 6 games.

USED GAMES - \$12,99/GAME KI: MEMBER SHIP FEE - \$20

DEFINE VARIABLE: X = # 0 + GAMES BOUGHT

WRITE AN EQUATION: f (2) = 20 + 12,99 X10PM

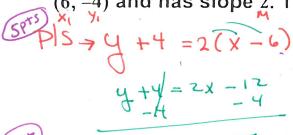
ANSWERS IN WORDS:

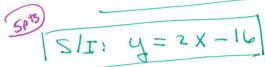
IT will cost \$97.94 for 6 Used games

Y=Total cost \$

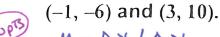
Write an equation in BOTH slope/intercept and point-slope form of the line that passes through 5

(6, -4) and has slope 2. Then Graph.





Write 4 equations of the line that passes through



$$M = DY/DX = \frac{-6-10}{-1-3} = \frac{-16}{-4}$$
 $M = 4$

- (1) PIS: Y+6 = 4 (X+1) (2) PIS: Y-10=4 (X-3)
- 4 STANDARD FORMS
 -4x+y=-2 (3) SII y-10=4x-12 y=4x-2
- 7. Write the slope-intercept equation of the line that passes through the point (-1, 4) and is parallel to the line y = 5x - 2. // m = 5

is parallel to the line
$$y = 5x - 2$$
. $||m| = 5$
 $||EQUATION|$: $P | S = 4 + 5 + 5$
 $||S|T = 4 + 5 + 5$
 $||S|T = 5x + 9$
 $||S|T = 5x + 9$

8. Write the slope-intercept equation of the line that passes through the point (-1, -1) and is perpendicular to the line y = 1/4x + 2. $\perp M = 4 + 500$

Chapter 5 More Practice

Date Period

Write the SLOPE-INTERCEPT form of the equation of the line described.

1) through: (2, 5), perp. to $y = (-\frac{1}{5}x - 5)$

$$y = 5x - 5$$

$$\perp m = 5$$

$$7/s$$
 $y-s = S(x-2)$
 $y-s = Sx-10$
 $+s$ $+s$

2) through: (3, 3), perp. to $y = (-\frac{3}{5})^2 + 4$

$$y = \frac{5}{3}x - 2$$

P/s
$$y-3=\frac{5}{3}(x-3)$$

 $y-3=\frac{5}{3}x-5$
 $+3$
 $+3$
 $y=\frac{5}{3}-2$

Write the POINT-SLOPE form of the equation of the line described.

- 1) Parallel lines have the same slopes.
- 2) Perpendicular lines have the negative reciprocal slopes.
- 3) through: (5, -5), parallel to $y = \frac{8}{5}x + 5$
- 4) through: (2, 3), parallel to $y = \frac{1}{2}x + 4$ $y 3 = \frac{1}{2}(x 2)$ $| m = \frac{1}{2}x + 4$
- 5) through: (4, 3), perp. to $y = -\frac{4}{5}x 2$ $\sqrt{y-3} = \frac{5}{4}(x-4)$ / / / /
- 6) through: (-5, 4), perp. to $y = \frac{1}{3}x 2$ y-4=-3(x+5)

Memoriz E

- D SLOPE INTERCEPT Y=MX+b 2) POINT SLUPE Y-Y = m (X-X1)
- STANDARD FORM AX+BY=C

Write the SLOPE-INTERCEPT form of the equation of the line described.

7) through:
$$(-1, -3)$$
, parallel to $y = 5x - 4$

$$y = 5x + 2$$

$$\frac{1}{\sqrt{1+3}} = 5x + 5$$

$$\frac{-3}{\sqrt{1+3}} = 5x + 5$$

$$\frac{-3}{\sqrt{1+3}} = 5x + 5$$

8) through:
$$(3, 5)$$
, parallel to $y =$

8) through: (3, 5), parallel to
$$y = \frac{2}{3}x + 2$$

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

Write the slope-intercept form of the equation of the line through the given point with the given slope.

9) through: (-4, 1), slope = -2

$$y = -2x - 7$$

$$y = -2(x + 4)$$

$$y = -2(x + 4)$$

$$y = -2(x - 8)$$

$$y = -2(x - 7)$$

10) through: (-1, 5), slope = -3

$$y = -3x + 2$$

$$y = -3x + 3$$

$$y = -3x + 2$$

$$y = -3x + 2$$

Write the slope-intercept form of the equation of the line through the given points.

11) through: (-4, 4) and (-2, 1)

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

 $M = \Delta Y = \frac{4+1}{1} = \frac{3}{-2} \qquad M = \frac{-3}{2}$

$$P/S$$
 $Y-4=\frac{-3}{2}(X+4)$
 $Y-4/=\frac{-3}{2}X-6$
 $+4$
 $-\frac{2}{5/I}|Y=\frac{-3}{7}X-2|$