

CP GEOMETRY SUMMER PACKET**UNIT 1** Evaluate each expression.

1) $\left(-\frac{6}{2}\right)((-2)(-1))$

2) $(-5 + 2)\left(\frac{-4}{-4}\right)$

3) $(3)\left(\frac{16 - -4}{4}\right)$

4) $\frac{2 + 3}{-6 -- 1}$

Evaluate each using the values given.

5) $\frac{3 + pm}{5}$; use $m = 4$, and $p = -2$

6) $-5 + z^2 + y$; use $y = -3$, and $z = -4$

7) $y^2 + 3z$; use $y = 5$, and $z = -1$

8) $\frac{q}{3} + p + 4$; use $p = -5$, and $q = -3$

9) $z - y + xz$; use $x = 2$, $y = -1$, and $z = -3$

10) $6q + qm$; use $m = -5$, and $q = 4$

UNIT 2 REAL NUMBERS

Evaluate each expression.

11) $(-2) + \left(-3\frac{5}{8}\right)$

12) $\left(-\frac{5}{7}\right) - \left(-\frac{7}{5}\right)$

13) $7 - 3\frac{4}{5}$

14) $\left(-\frac{4}{7}\right) - \left(-\frac{3}{2}\right)$

Find each product.

$$15) \left(2\right)\left(-\frac{6}{5}\right)$$

$$16) \left(-\frac{2}{3}\right)\left(\frac{1}{4}\right)$$

$$17) \left(\frac{1}{4}\right)\left(\frac{1}{10}\right)$$

$$18) \left(\frac{1}{3}\right)\left(-\frac{3}{4}\right)$$

Find each quotient.

$$19) \frac{9}{8} \div \frac{11}{9}$$

$$20) \frac{-7}{5} \div \frac{5}{3}$$

$$21) -2 \div \frac{-1}{2}$$

$$22) \frac{1}{8} \div -9$$

Simplify each expression.

$$23) 7 - 7n + n - 2$$

$$24) -8 + x - 4 + 9x$$

$$25) 5(7a - 9)$$

$$26) -9(k + 3)$$

$$27) 7(7 - 10x) + 9x$$

$$28) 2x - 10(x + 6)$$

UNIT 3 SOLVE EQUATIONS Solve each equation. Check your solution.

$$29) \frac{a}{12} = -11$$

$$30) 29 = 17 + v$$

$$31) 4 = 3 + 5x - 4$$

$$32) -8 + 2n - 6n = 20$$

$$33) \ 5(3 + 4m) + 4 = 6 + 7m$$

$$34) \ 12 - 5n = 7 - 4n$$

UNIT 4**Solve each proportion.**

$$35) \ \frac{x}{5} = \frac{3}{9}$$

$$36) \ \frac{9}{4} = \frac{n}{8}$$

$$37) \ \frac{5}{3} = \frac{m - 8}{5}$$

$$38) \ \frac{x + 1}{6} = \frac{x + 6}{4}$$

Solve each problem.

$$39) \ 18\% \text{ of } 18 \text{ is what?}$$

$$40) \ \text{What is } 26\% \text{ of } 105?$$

$$41) \ 39\% \text{ of what is } 118.9?$$

$$42) \ 33\% \text{ of } 32 \text{ is what?}$$

Solve the following equation for y.

$$43) \ 5x - 2y = -2$$

$$44) \ 5x = -10 + 2y$$

CHAPTER 5 LINEAR FUNCTIONS**Find the slope.**

$$45) \ (-15, 8), (-18, -9)$$

$$46) \ (-18, -3), (14, 6)$$

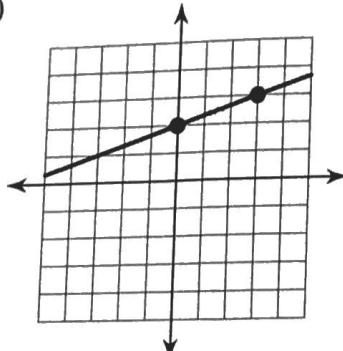
$$47) \ y = -\frac{2}{5}x + 2$$

$$48) \ y = 4x + 1$$

55) $y = -4$

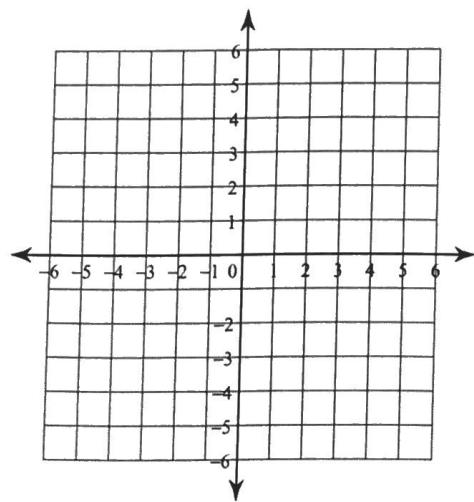
56) $y = \frac{5}{4}x$

49)

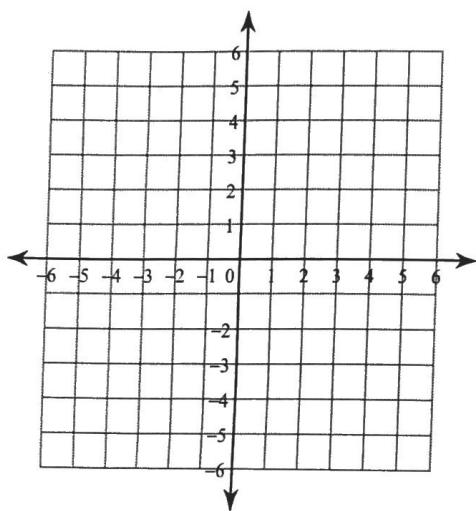


Sketch the graph of each line.

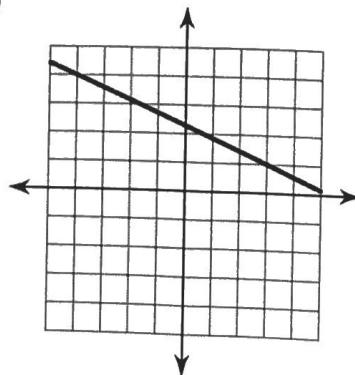
51) $x\text{-intercept} = -3, y\text{-intercept} = 4$



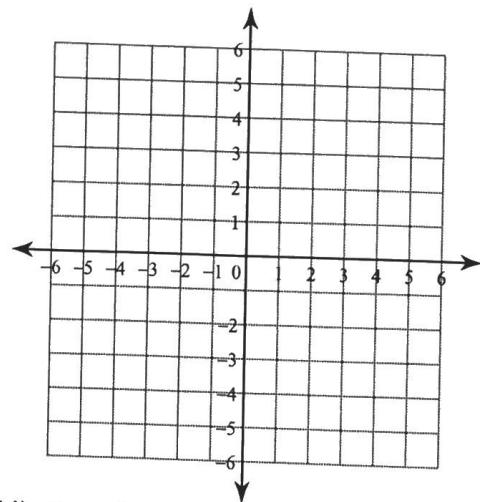
53) $y = -2x + 4$



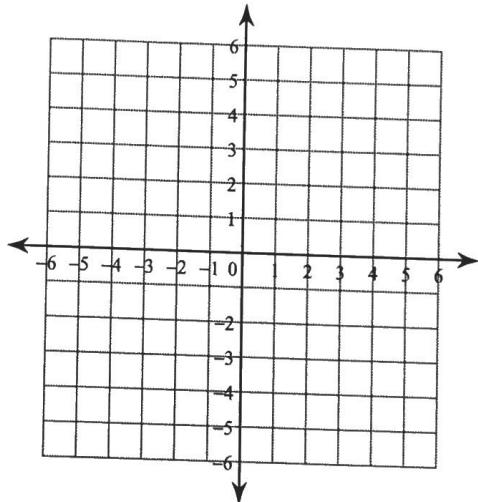
50)



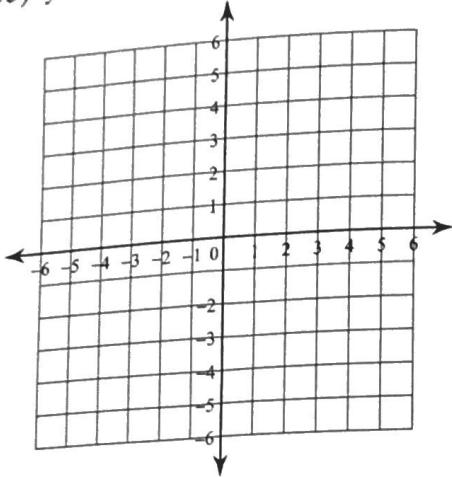
52) $y = \frac{3}{4}x - 2$



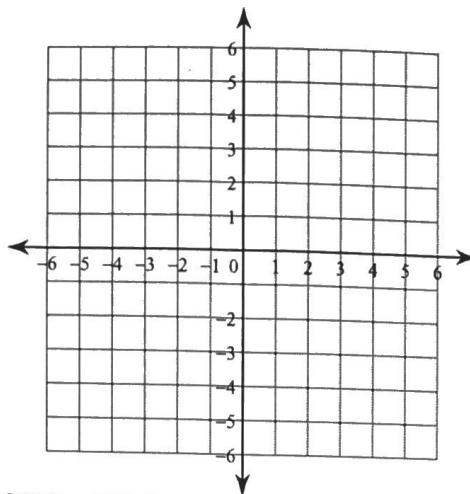
54) $5x - 2y = 4$



55) $y = -4$

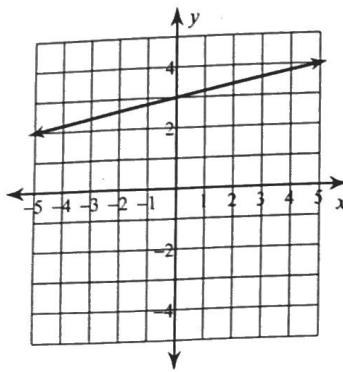


56) $y = \frac{5}{4}x$

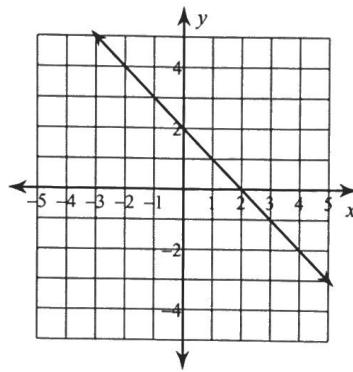


UNIT 6 WRITE EQUATIONS OF LINEAR FUNCTIONS Write the slope-intercept form of the equation of each line.

57)



58)



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

59) through: $(0, 1)$ and $(-5, 5)$

60) through: $(3, 5)$ and $(4, 2)$

Write the slope-intercept form of the equation of the line described.

61) through: $(1, 2)$, parallel to $y = 4x + 2$

62) through: $(4, 1)$, perp. to $y = -\frac{2}{3}x - 2$