

Algebra wrap-up for Unit (so far)

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Evaluate each expression.

1) $10 \div (5 - 3)$

Solve each equation.

2) $5 + \frac{a}{4} = 10$

3) $\frac{9 + k}{4} = 2$

4) $-88 = 8(1 + 4x)$

5) $-3 + 7(3n - 6) = -150$

6) $8(4 + x) = 96$

7) $-4(3k - 5) = 116$

8) $-8(x + 1) + 6(3x - 2) = 60$

9) $-3(3 - 6n) + 7(1 + 2n) = -2$

$$10) -7(4 - 7m) - 8(2 + 2m) = 55$$

$$11) 4 = -4(2p + 8) - 4(-4 + 3p)$$

$$12) -5(-7b + 2) - 3 = -41 + 35b$$

$$13) -8(3r + 2) + 7 = -5(4r + 5) + 4r$$

$$14) -5 + 3(-1 + 7n) = -7(n + 4) + 8n$$

$$15) -2(1 + 2x) = -2 + 2(1 - x)$$

Solve each proportion.

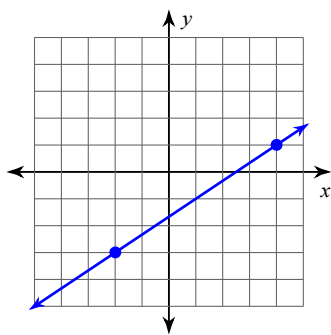
$$16) \frac{x}{2} = \frac{4}{7}$$

$$17) \frac{8}{3} = \frac{v}{10}$$

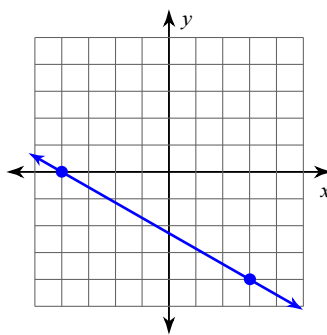
$$18) \frac{9}{4} = \frac{x + 10}{8}$$

Find the slope of each line.

19)



20)



Find the slope of the line through each pair of points.

21) $(-14, -17), (-20, 16)$

22) $(14, 12), (12, -1)$

Find the slope of a line perpendicular to each given line.

23) $y = -\frac{8}{3}x + 5$

24) $y = 2x + 3$

Answers to Algebra wrap-up for Unit (so far)

- | | | | |
|---------------------|--------------------|-------------------|--------------------|
| 1) 5 | 2) {20} | 3) {-1} | 4) {-3} |
| 5) {-5} | 6) {8} | 7) {-8} | 8) {8} |
| 9) {0} | 10) {3} | 11) {-1} | 12) No solution. |
| 13) {2} | 14) {-1} | 15) {-1} | 16) {1.14} |
| 17) {26.66} | 18) {8} | 19) $\frac{2}{3}$ | 20) $-\frac{4}{7}$ |
| 21) $-\frac{11}{2}$ | 22) $\frac{13}{2}$ | 23) $\frac{3}{8}$ | 24) $-\frac{1}{2}$ |