

Practice 3.4 & 3.5

Name _____

(3.4) Solve the linear equation algebraically.

1) $-7 + 11 = \frac{x}{-5}$

2) $-7y - 4 = -5y + 4$

3) $6x - 9x + 11x = 32 - 12x + 4x$

4) $3(2z - 4) = 5(z + 3)$

5) $2(8 - d) = 3d + 4 - d$

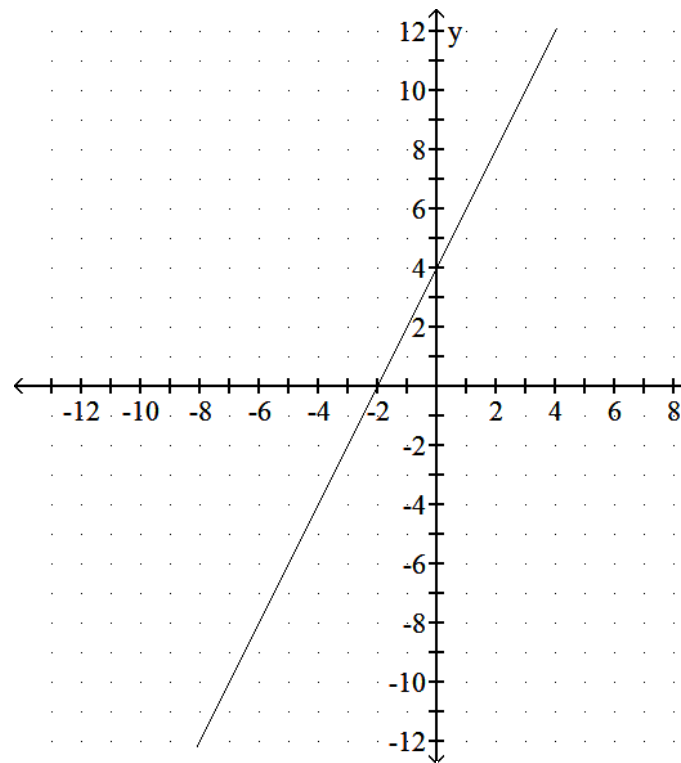
6) $-5(p + 2) = -p - 11 - 3p$

7) $-3(2p + 13) - 26 = -2(p + 14) + 11$

Solve the linear equation visually.

8) $2x + 4 = 8$

The line is values of $2x + 4$



(3.5) Solve the number problem by finding the value of the unknown number.

9) If three times a number is decreased by 1, the result is 5.

10) If twice a number is increased by 2, the result is 28.

11) When 31 is decreased by twice a number, the result is 21.

12) Four times the sum of a number and 3 is 12 less than the number times 8.

14) A tree 7 feet high grows at the rate of 3 feet each year. How many years will it take for the tree to grow to a height of 16 feet?

15) The perimeter of a rectangular garden is to be 40 feet. Find the length if the width is 8 feet.

Solve the problem.

13) Alex always takes \$10 more than he anticipates needing on a date. If Alex takes \$30 on his date with Judith, find the amount of money Alex anticipates needing for this date.

Answer Key

Testname: WKS_3.4_3.5

- 1) -20
- 2) -4
- 3) 2
- 4) 27
- 5) 3
- 6) 1
- 7) -12
- 8) 2
- 9) 2
- 10) 13
- 11) 5
- 12) 6
- 13) \$20
- 14) 3 years
- 15) 12 feet