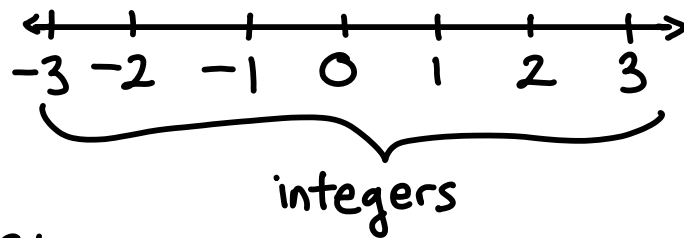




1. True
2. Integer - the set of positive and negative whole numbers -



3. -110 ft.

4. -16

5. -42

6. 5

7. -42

8. 3

9. $-\frac{2}{15}$

10. 25

11. -25

12. No, $14xy$ and $2xy^2$ are not like terms

A diagram with two arrows pointing upwards from the 'y' in $14xy$ and the 'y' in $2xy^2$ to a horizontal line. A vertical tick mark is centered under this line.

the variables must be the same and have the same power - the y's are different

13.

$$4x - 8x + 10 =$$
$$\underline{-4x + 10}$$

14.

$$\begin{array}{c} \underline{3xh} + 9xh^2 - \underline{9xh} + 2x^2h \\ \uparrow \quad \text{like} \quad \downarrow \\ \underline{-6xh} + 9xh^2 + 2x^2h \end{array}$$

15.

$$\underbrace{abc + 4abc^2 + 6ab^2c - 12a^2bc}$$

no like terms -
the expression can
not be simplified

16. $3x + 21$

$$3(x + 7) =$$
$$3x + 21$$

17. $-9y + 9$

$$\begin{aligned} -4(y - 6) - 5(y + 3) &= \\ -4y + 24 - 5y - 15 &= \\ -9y + 9 & \end{aligned}$$

18. $11x - 10$

$$\begin{aligned} 3x + 2(x - 4) + 6\left(x - \frac{1}{3}\right) &= \\ \underline{3x} + \underline{2x} - 8 + \underline{6x} - \underline{2} &= \\ 11x - 10 & \end{aligned}$$

$$19. \quad -\frac{3}{2}x - \frac{1}{10}$$

$$-\frac{1}{4}\left(\frac{2}{5} + 6x\right) =$$

$$-\frac{1}{10} + -\frac{3}{2}x$$

$$20. \quad 4(5x + 1)$$

$$20x + 4 =$$

$$4(5x + 1)$$

$$\begin{array}{l} \curvearrowright \\ 4(5x + 1) = \\ 20x + 4 \end{array}$$