

Simplify Expressions

PH: Chapter 3

November 3, 2021

1 Simplify Expressions

Q 1. Find and correct the mistakes in each problem. (hint: \pm go with the term after it.)

$$3y - (-7y) = -4y \tag{1}$$

$$\begin{aligned} 2 - 2(-6k - 2) &= -12k - 4 - 2 \\ &= -12k - 6 \end{aligned} \tag{2}$$

$$10 - 3v + 7v + 2 + 9v = 8 - 19v \tag{3}$$

$$\begin{aligned} 4 - 7(p - 2) &= 4 - 7p - 14 \\ &= -10 - 7p \end{aligned} \tag{4}$$

$$\begin{aligned} 10 - 2(6n - 9) &= 10 - 12n - 18 \\ &= -8 - 12n \end{aligned} \tag{5}$$

$$\begin{aligned} k \cdot 2k \cdot k \cdot k &= k^3 \times k + k \\ &= k^4 + k \end{aligned} \tag{6}$$

$$\frac{-8v^4z^2}{2vz^5} = -4v^3 \tag{7}$$

$$\frac{6k^3}{-10k^6} = \frac{3}{-5} \cdot k^3 \tag{8}$$

$$9 - 3x - 8x^2 + 2x + 6 - 9x^2 = 15 + x - 17x^2 \quad (9)$$

2 Simplify Expressions

Q 1. $3[2(x + 1) + 1] - 8x$

Q 2. $-8m + 4[3.2m - (2.5 - 3.2m)] - 4m + 6$

Q 3. $\frac{2}{3}(18 - \frac{3}{5}p) - \frac{p}{10}$

Q 4. $4\left(\frac{2}{3}a + b\right) + \frac{b}{6} - \frac{1}{6}a$