

Practice 8.7

Name(s) _____

(8.7a) Determine whether the terms are like or unlike. If alike as add them.

1) $2xy^3z, -6xy^2$

2) $5, 9, -13$

Simplify the expression by combining like terms.

3) $9x - x - 2x - x$

4) $4y^7 - 4y^7$

Remove parentheses and simplify the expression.

5) $1 + 3(10 - 7m)$

6) $-\frac{3}{4}(-8y - 8x + 4z)$

7) $[4(x - 5) - 6] + [4(x - 1) + 4]$

8) $-\frac{3}{5}(z - 16) - \frac{1}{10}z$

(8.7b) Perform the indicated operation. Don't forget to simplify if possible.

9) Add $7x - 2$ to $2x - 3$

10) Subtract $7x + 2$ from $4x - 5$

Write the phrase as an algebraic expression and simplify if possible. Let x represent the unknown number.

11) The product of 11 and a number, added to 17.

12) The product of -18 and the sum of a number and 6.

13) Five times a number, increased by nine.

14) One-half a number, minus ten, plus two times the number.

15) The sum of four times a number and 9, and six times a number and 3.

Answer Key

Testname: M050_8.7WKS

- 1) unlike
- 2) like
- 3) $5x$
- 4) $11y^7$
- 5) $-21m + 31$
- 6) $6y + 6x - 3z$
- 7) $8x - 26$
- 8) $-\frac{7}{10}z + \frac{48}{5}$
- 9) $9x - 5$
- 10) $-3x - 7$
- 11) $17 + 11x$
- 12) $-18(x + 6)$
- 13) $5x + 9$
- 14) $\frac{5}{2}x - 10$
- 15) $10x + 12$