

HW 3.2 Activity

Name: _____

- Regular: p. 90-91 #6, 7, 32-35
- Modified: p. 90-91 #6, 7, 32
- Advanced: p. 90-91 #6, 7, 31-35

Write the sum or difference of two algebraic expressions modeled by the algebra tiles. Then use the algebra tiles to simplify the expression.

6. $\left(\begin{array}{c} + \\ + \end{array} \begin{array}{ccc} - & - & - \\ - & - & - \end{array} \right) + \left(\begin{array}{c} + \\ + \\ + \\ + \\ + \\ + \end{array} \right)$

7. $\left(\begin{array}{c} + \\ + \end{array} \begin{array}{cccc} + & + & + & + \\ + & + & & \end{array} \right) - \left(\begin{array}{c} + \\ + \end{array} \begin{array}{cccc} - & - & - & - \end{array} \right)$

Evaluate the expression when $x = -\frac{4}{5}$ and $y = \frac{1}{3}$. (Section 2.2)

32. $x + y$

33. $2x + 6y$

34. $-x + 4y$

35. **MULTIPLE CHOICE** What is the surface area of a cube that has a side length of 5 feet? (*Skills Review Handbook*)

(A) 25 ft^2 (B) 75 ft^2 (C) 125 ft^2 (D) 150 ft^2

Advanced:

31. **Reasoning** Write an expression in simplest form that represents the vertical distance between the two lines shown. What is the distance when $x = 3$? when $x = -3$?

