Lesson

Extra Practice

Write the product using exponents.

Evaluate the expression.

9.
$$-5^4$$

$$-3^2 = -3 \cdot 3 = -9$$

13. The five spheres in a set have different sizes. The smallest concrete sphere in the set has a volume of 5 cubic feet. The volume of each of the other spheres is 3 times the volume of the next smaller one. Write an expression involving a power that represents the volume of the largest sphere. What is the volume of the largest sphere?

Evaluate the expression.

14.
$$7 + (-2) \cdot 3^2$$

15.
$$(15^2 - 5 \cdot 4^2) \div 5$$

16.
$$\frac{1}{4}(2^5-8)$$

17.
$$(4^3 \cdot 2^2 - 3^2)$$

18. Copy and complete the table. Compare the values of $2^x - 2$ with the values of 2^{x-2} .

X	2	3	4	5	6
2× - 2					
2×-2					