

## Section 3.3 Extra Practice

1. Evaluate each expression. Show your work.

**a)**  $5(3)^3$

**b)**  $6(-5)^2$

**c)**  $4(-2^4)$

**d)**  $-7(4^3)$

2. Write each expression, using a coefficient and a power. Then, find the value of each expression. Show your work.

**a)**  $4 \times 3 \times 3 \times 3$

**b)**  $5 \times (-2) \times (-2) \times (-2) \times (-2) \times (-2)$

**c)**  $-1 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$

**d)**  $6(-10)(-10)(-10)(-10)(-10)$

3. Evaluate using your calculator.

**a)**  $-6(4)^6$

**b)**  $7 \times 8^3$

**c)**  $-4(-9)^3$

**d)**  $-7^4$

4. Evaluate. Show your work.

**a)**  $(6 + 3)^2 - 21$

**b)**  $6^2 - 5^2$

**c)**  $12 + (-4)^2 - (-3^3)$

**d)**  $5^3 - 4(-2^6)$

5. Find the value of each expression. Show your work.

**a)**  $[(9 - (-2))]^2 + (-3)^3$

**b)**  $12 - 3(4^2)$

**c)**  $36 - 5^2 + (4^3 - 6^2)$

**d)**  $-(-3^2) + (-9)^2$

6. For each pair of expressions, which one has the greater value? Show your work.

**a)**  $3(2^4)$

$4(3^2)$

**b)**  $10^3 + 10^3$

$(10 + 10)^3$

**c)**  $(5 \times 3)^2$

$5^2 \times 3^2$