

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) $-1 \times 10 \times 10$

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

3. Evaluate using your calculator.

a) $-6(4)^6$

b) 7×8^3

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