

## Sect. 2.3 Order of Operations with Powers

↳ Evaluate an expression using the order of operations

To avoid getting different answers when we evaluate an expression, we must use this order of operations:

### BEDMAS

- evaluate expressions in brackets first
- evaluate the powers
- multiply and divide, in order, left to right
- add and subtract, in order, left to right

Example 1: Evaluate.

Hint: Watch your order of operations - BEDMAS!!

a)  $3^3 + 2$

b)  $(2 - 5)^3$

c)  $3^2 - 4^2$

d)  $2 \times 4^2$

e)  $-10^2 \div 5$

f)  $[(-4) \div 2]^3$

g)  $\frac{4 + 2^4}{2^2}$

h)  $-2(4 \times 3)^2$

**Work Sample Questions**p. 66-67: # 3adf, 4acfh, 5aceg, 7, 8ace, 10ace,  
14ace, 15, 16cd, 18**Extra Practice Questions**p. 66-67: # 3bceghij, 4bdeg, 5bdfh, 8bdf, 10 bdf,  
14bd, 16abef