Solutions to WS 8.1 - Evaluating Expressions with Exponents, #2-34 even

(2) 
$$5^{2} = 5.5$$
 (4)  $6^{3} = 6.6.6$  (6)  $(0.02)^{2} = 0.02 \cdot 0.02$  (8)  $(\frac{1}{3})^{3} = \frac{1}{3} \cdot \frac{1}{3} \cdot \frac{1}{3}$ 

$$(0) - (5)^2$$
 $= -5.5$ 
 $= -25$ 

$$\begin{array}{c|c} (6) - 2(2+3)^2 & (8) 2(3-5)^3 \\ = -2(5)^2 & = 2(-2)^3 \\ = -2(25) & = 2(-8) \\ = -50 & = -16 \end{array}$$

$$20 z^{2}$$
, for  $z = -3$   
=  $(-3)^{2}$   
=  $9$ 

$$(22)$$
 m<sup>3</sup>, for m =  $(-1)^3$  =  $(-1)$ 

$$\begin{array}{lll}
\boxed{26} & w^{4} + x^{2}, & \text{if } w = \frac{1}{3}, & x = \frac{3}{9} \\
= \left(\frac{1}{3}\right)^{9} + \left(\frac{3}{9}\right)^{2} \\
= \left(\frac{1}{3}\right)^{9} + \left(\frac{1}{3}\right)^{2} \\
= \left(\frac{1}{3}\right)^{9} + \left(\frac{1}{3}\right)^{2} \\
= \frac{1}{91} + \frac{1}{9} \\
= \left(\frac{10}{91}\right)^{9} + \frac{1}{9}
\end{array}$$

$$\begin{array}{ll}
\boxed{28} & S = \frac{1}{2} gt^{2}, & \text{for } g = 32, t = 2 \\
S = \frac{1}{2} (32)(2)^{2} \\
S = \frac{1}{2} (32)(4) \\
S = \frac{1}{9} (32)(4) \\
S = \frac{1}{9} (32)(4)
\end{array}$$