

Name : _____

T2S2

Expanded Form & Exponential Form

A) Express each of the following in expanded form.

1) $\left(\frac{2b}{3}\right)^9 =$ _____

2) $(-3v)^6 =$ _____

3) $\left(\frac{9}{5}\right)^4 =$ _____

4) $(-4)^7 =$ _____

5) $\left(-\frac{w}{8}\right)^5 =$ _____

6) $c^8 =$ _____

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B) Express each of the following in exponential form.

1) $(-3.2) \cdot (-3.2) \cdot (-3.2) \cdot (-3.2) \cdot (-3.2) =$ _____

2) $\frac{b}{6} \cdot \frac{b}{6} \cdot \frac{b}{6} \cdot \frac{b}{6} \cdot \frac{b}{6} \cdot \frac{b}{6} =$ _____

3) $8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 =$ _____

4) $\left(-\frac{7}{2}\right) \cdot \left(-\frac{7}{2}\right) \cdot \left(-\frac{7}{2}\right) \cdot \left(-\frac{7}{2}\right) \cdot \left(-\frac{7}{2}\right) \cdot \left(-\frac{7}{2}\right) \cdot \left(-\frac{7}{2}\right) \cdot \left(-\frac{7}{2}\right) =$ _____

5) $(-5x) \cdot (-5x) \cdot (-5x) \cdot (-5x) \cdot (-5x) \cdot (-5x) \cdot (-5x) \cdot (-5x) =$ _____

6) $\frac{t}{4} \cdot \frac{t}{4} \cdot \frac{t}{4} \cdot \frac{t}{4} \cdot \frac{t}{4} \cdot \frac{t}{4} \cdot \frac{t}{4} \cdot \frac{t}{4} =$ _____