

Name: _____

Homework – Monday (January 28, 2019)

Solve the following problems **without a calculator**. You ***MUST*** show your work. ***NO WORK = NO CREDIT.***

<p>1. Simplify.</p> <p>a) $(6r)(5r^2)$</p> <p>b) $10xy^3 \cdot 8x^5y^3$</p> <p>c) $21d^7 \cdot 2d^3$</p>	<p>2. What is the value of the expression?</p> <p>$-(5^1 \cdot 4^{-3} \cdot 5^2 \cdot 5^0 \cdot 4^2 \cdot 5^{-2} \cdot 4^3)$</p>
<p>3. What is the value of x in the equation below?</p> <p>$x^2 + 1 = 50$</p>	<p>4. The area of a square is 81cm^2. What is the perimeter, in cm, of the square?</p>

Homework- Tuesday (January 29, 2019)

Solve the following problems **without a calculator**. You ***MUST*** show your work. ***NO WORK = NO CREDIT.***

<p>1. Simplify.</p> <p>a) $(x^3)^6$</p> <p>b) $(5r^5)^2$</p> <p>c) $(7h^2z^3)^2$</p>	<p>2. Solve for h.</p> <p>$h^2 = \frac{4}{25}$</p>
<p>3. Solve for x in the equation.</p> <p>$x^3 + 80 = 144$</p>	<p>4. Simplify in exponential form.</p> <p>a) $(2^2)(2^3 \cdot 3^2)^2$</p> <p>b) $(-3x^3y^2)(5xy^{-1})$</p>

Homework - Wednesday (January 30, 2019)

Solve the following problems **without a calculator**. You MUST show your work. **NO WORK = NO CREDIT.**

<p>1. Simplify in exponential form.</p> <p>a) $\frac{8^{22}}{8^{13}}$</p> <p>b) $\frac{10p^4}{6p}$</p>	<p>2. What is the value of the expression?</p> $\frac{5^2 \cdot 3^6 \cdot 5^2}{3^4 \cdot 5^2 \cdot 3^2}$
<p>3. What is the <u>sum</u> of the solutions to the following equation?</p> $x^2 = 169$	<p>4. Simplify.</p> <p>a) $\frac{14x^5y^7}{6x^1y^4}$</p> <p>b) $\frac{12x^28y^3}{xy}$</p>

Homework - Thursday (January 31, 2019)

Solve the following problems **without a calculator**. You MUST show your work. **NO WORK = NO CREDIT.**

<p>1. Simplify.</p> <p>a) $5^{-4} \cdot 5^0$</p> <p>b) $(2)^{-6}$</p> <p>c) $4^{-3} \cdot 4^6$</p>	<p>2. Simplify.</p> $(20x^6y) \cdot (\frac{1}{4} x^2y)$
<p>3. Simplify.</p> $\frac{(2x^5y)^3}{36x^8y^6}$	<p>4. Simplify.</p> <p>a) $\frac{7s}{35t^{-3}}$</p> <p>b) $\frac{3m^{-2}}{n}$</p>

