

This assignment is due in class before the exam on Monday, June 6th

- Evaluate 3^4 _____ $(2/3)^2$ _____ $5(6^2)$ $(.03)^3 =$ _____
- Write as an exponential expression: 49 _____ $8/27$ _____ $-100 =$ _____
- The base for -3^2 is _____
- If m and n are positive integers, and a is real then $a^m (a^n) =$ _____
- Simplify $(x^2y)(3y^5z^4)$ _____ $(-a^6b^4)(3ab^0)$ _____ $(mn^2)^3 =$ _____
- T/F: $(a/c)^n = a^n/c^n$ _____ $-a^0 = 1$ _____ $5x^2y$ has degree 4 _____
- The degree of a term is _____
- Circle any binomials: $6x^2y$, $5a + 7b$, $3m + 4n - 5$, $x - 4$, $-8 + 2y - 3$
- The degree of a polynomial is _____
- If $H(t) = -16t^2 + 1150$ gives height in feet of an object above the ground at t seconds, find $H(3)$

- Subtract: $15m^2 + n + 8 - (3m^2 - 10)$ _____
- T/F: $(7z - 4) - (3z - 2) = 7z - 4 - 3z - 2$ _____
- $(-2c)(-c) =$ _____ $-2c + c =$ _____
- Divide: $3m^4n^3 / m^3n^4$ _____
- Use the distributive property to multiply: $8x(7x^4 + 1)$ _____
- Can $3m^2n$ be combined with $-n^2m$? Why or why not? _____
- Multiply $(5x - 3y)^2$ _____ $(3a + 5)(3a - 5)$ _____ $(6m)^2$ _____
- Find the product: $(y/6 - 8)(y/6 + 8)$ _____
- Write with positive exponents: $2a^{-3}$ _____ $1/7^{-5}$ _____
- If a is a real number other than 0, and n is an integer, then $a^{-n} =$ _____
- Simplify & write using positive exponents: $(2/3)^{-3} =$ _____ $(3x^2y/z^{-1})^{-2} =$ _____
- T/F: $1/a^{-n} = a^n$ _____ $2^{-4} = -1/16$ _____
- Circle the number that is in correct scientific notation: 8.4×10^{-5} 84×10^{-5}
- Multiply and put into correct scientific notation: $(9 \times 10^7)(4 \times 10^{-5})$ _____
- T/F: $(a+b)/c = a/c + b/c$ _____ Divide $x^2 + 12x + 35$ by $(x+5)$
- In the polynomial division problem above, _____ is the dividend.

