Algebra RH

Essential Question: How do we divide polynomials?

Do Now:

Find the area of a triangular garden whose dimensions are $x + 4$ and $2x - 1$. ($A = \frac{bh}{2}$)

Dividing Polynomials:
Divide each term of the polynomial by the denominator.

Divide and express in standard form.

1) $\frac{20x^2 + 10x}{5x}$

2) $\frac{-16x^3 + 8x^2 + 4x}{4x}$

3) $6x^3 + 4x^2 + 2x$ divided by $-2x$

4) $\frac{20m^2 - 8m + 4}{2m}$

5) $(20x^2 + 12x) \div 4x$

6) $(b^2 - 12b + 5) \div 2b$

7) $(8r^2 + 5r - 20) \div 4r$

8) $\dfrac{12p^3r^2 + 18p^2r - 6pr}{6p^2r}$

9) The volume of a rectangular pyramid is one-third the product of the area of its base and its height. Find an expression for the volume of a rectangular pyramid whose base has an area of $3x^2 + 12x + 9$ square feet and whose height is $x + 3$ feet.