

Work the quiz on separate, unlined paper. Submit the quiz with cover sheet stapled to your work, which MUST be in order (so do it on scratch paper, first).

A nice 5.3 thru 5.6 Slideshow is [HERE](#)

GAMEPLAN:

5.3, 5.4 Wednesday.

5.5, 5.6 Friday

5.6 Monday

5.6 is the "big skill":

It's assumed you've seen

Today (Tuesday)

we did a

5.1-5.2 in class
worksheet.

Factoring Trinomials

this, before.

$$\left(\frac{2xy}{z}\right)^w = \frac{(2xy)^w}{z^w}$$

$$= \frac{2^w x^w y^w}{z^w}$$

$$9^2 \cdot 9^7 = 9^9$$

$$(-9)^0 = 1$$

$$(a^b)^c = a^{bc} \quad (9^0) \text{ OR } -9^0 = -1$$

$$(3^4)^4 = 3^{16}$$

~~$$-4 = \frac{1}{4}$$~~

$$(-5)^{15} = -5^{15}$$

~~$$(5)^6 (5)^2 = 25^8$$~~

$$(-5)^{280} = +5^{280}$$

$$(-5)^6 (-5)^2 = \underline{5^6 \cdot 5^2 = 5^8}$$

$$(-1)^2 = (-1)(-1) = 1$$

$$(-1)^3 = (-1)(-1)(-1) = -1$$

$$\frac{x^y}{x^z} = x^{y-z} \quad 2^{-1} = \frac{1}{2}$$

$$\left(3x^2 z^7 \right)^{-11} = 3^{-11} x^{-22} z^{-77}$$

~~$$\frac{4^{-2} x^{-2} y^4}{2 x y^3} = \frac{x^{-2-1} y^{4-3}}{4^2 \cdot 2} = \frac{1}{3^11 x^{22} z^{77}}$$~~

$$4^{-2} = \frac{1}{4^2} = \frac{1}{16}$$

$$(4)(-2) = -8$$

$$(a^b)^c = a^{bc}$$

$$(a^{3x+2})^5 = a^{5(3x+2)} = a^{15x+10}$$

$$= \frac{5x}{2^{-1}}$$

$$\frac{x^{-2-1} y^{4-3}}{4^2 \cdot 2} = \frac{x^{-3} y^1}{32} = \frac{y}{32x^3}$$

$$\frac{(x^{37} y^5 z^{-5})^2}{(x^{-2} y^{-3} z)^{-1}} =$$

$$\frac{x^{74} y^{10} z^{-5}}{x^2 y^3 z^{-1}} = x^{74-2} y^{10-3} z^{-5-(-1)}$$

$$= x^{72} y^7 z^{-4} = \frac{x^{72} y^7}{z^4}$$

$$\frac{(4xy^{-2})^{-2}}{2xy^3} = \frac{4^{-2} x^{-2} y^4}{2xy^3}$$

$$= \frac{4^{-2}}{2} \cdot x^{-2-1} y^{4-3} = \frac{1}{4^2 \cdot 2} x^{-3} y^1$$

$$= \frac{1 y^1}{32 x^3}$$