A3 Notes

Wednesday, January 28, 2015

9:35 AM Precalculus

A3 Notes - Reviewing Fractions

Write in reduced form.

$$1. \frac{{}^{6} \hbar 8 x^{3} y}{5 \hbar 5 x y^{4}} = \frac{6 \chi^{2}}{5 \gamma^{3}}$$

2. 
$$\frac{x^3}{x^2 - 2x} = \frac{\chi^3}{\chi(x-2)} = \frac{\chi^2}{\chi-2}$$
  
3.  $\frac{z^2 - 3z}{9 - z^2} = \frac{z(z-3)}{(3+z)(3-2)} = \frac{z(3-z)}{(3+z)(3-2)} = \frac{z(3-z)}{(3+z)(3-2)} = \frac{z(3-z)}{(3+z)(3-2)} = \frac{z(3-z)}{(3+z)(3-z)} = \frac{z(3-z)}{(3-z)} = \frac{z(3-z)}{(3-$ 

Simplify.

4. 
$$\frac{x+3}{x-1} \cdot \frac{1-x}{x^2-9} = \frac{x+3}{x-1} \cdot \frac{-(x-1)}{(x+3)(x-3)}$$
  
=  $\frac{-1}{x-3}$ 

6. 
$$\frac{1}{2x} \div \frac{1}{4} = \frac{1}{2x} \cdot \frac{4}{1} = \frac{2}{x}$$

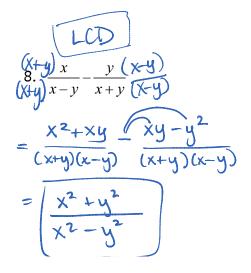
5. 
$$\frac{2y^{2}+9y-5}{y^{2}-25} \cdot \frac{y-5}{2y^{2}-y}$$

$$= (2y-1)(y+5) \cdot \frac{y-5}{(y+5)(y-5)} \cdot \frac{y-5}{y(2y-1)}$$

$$= (\frac{1}{y})$$

$$2x^{2}y$$

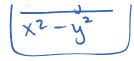
7. 
$$\frac{\frac{2x^{2}y}{(x-3)^{2}}}{\frac{8xy}{x-3}} = \frac{2x^{2}y}{(x-3)^{2}} \cdot \frac{x-3}{\sqrt{8xy}}$$
$$= \frac{x}{4(x-3)} - \frac{x}{4x-12}$$

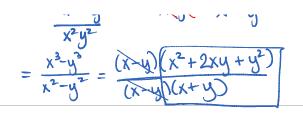


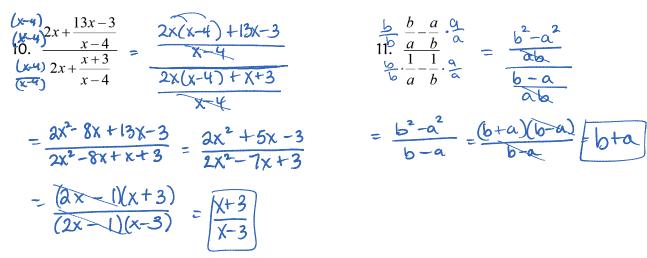
$$\frac{\sum_{x=y}^{1} \frac{x}{y^{2}} - \frac{y}{x^{2}} + \frac{y}{y^{2}}}{\sum_{x=y}^{1} \frac{1}{y^{2}} - \frac{1}{x^{2}} + \frac{y}{y^{2}}}$$

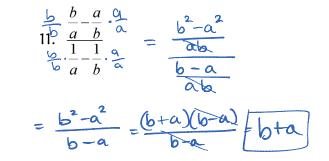
$$= \frac{x^{3} - y}{x^{2}y^{2}} = \frac{x^{3} - y}{x^{2}} = \frac{x^{3} - y}{x^{3}} = \frac{x^{3$$

 $\frac{x^{2}-y^{2}}{x^{2}y^{2}}$ 

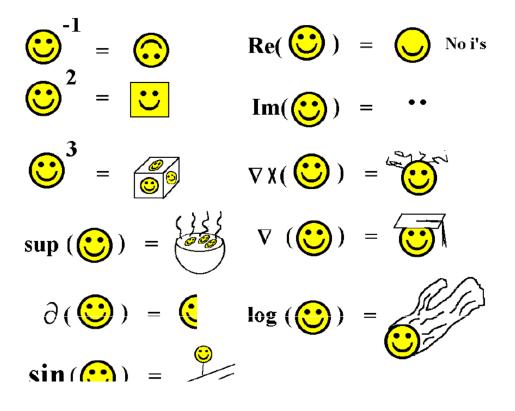


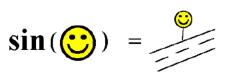






## Happy Face Math







Happy Face Math by Charlie Smith

