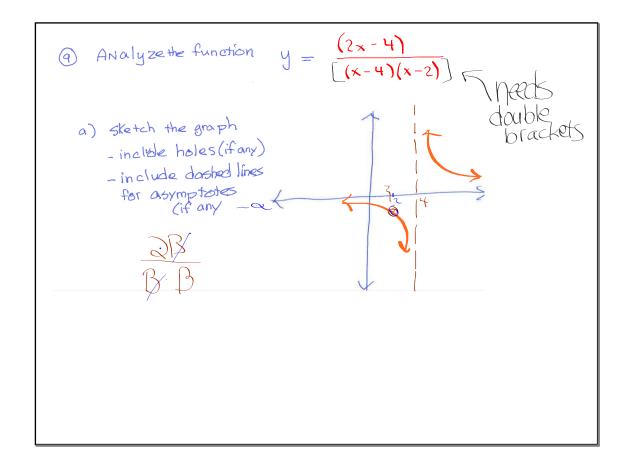


$$4) \frac{3(x-5)(5x+1)}{545(x-5)} = \frac{5x+1}{5}$$

(5)
$$\frac{2x-4}{x-2} = \frac{2(x-2)!}{x!!} = [2]$$

$$\frac{n^2 - 16}{4n - 12} = \frac{(n+4)(n-4)}{4(n-3)}$$

$$\frac{a-b}{b-a} = \frac{a+b}{a-b} = \frac{1}{a-1}$$



Questions on HW?



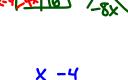


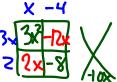
$$\frac{\chi^2 - 9\chi + 16}{3\chi^2 - 10x - 8} = \frac{\left(\begin{array}{c} \chi \\ \end{array}\right)}{\left(\begin{array}{c} \chi \\ \end{array}\right)}$$





$$\frac{\chi^{2} - 8\chi + 16}{3\chi^{2} - 10x - 8} = \frac{(\chi - 4)(\chi - 4)}{(3\kappa + 2)(\chi - 4)}$$



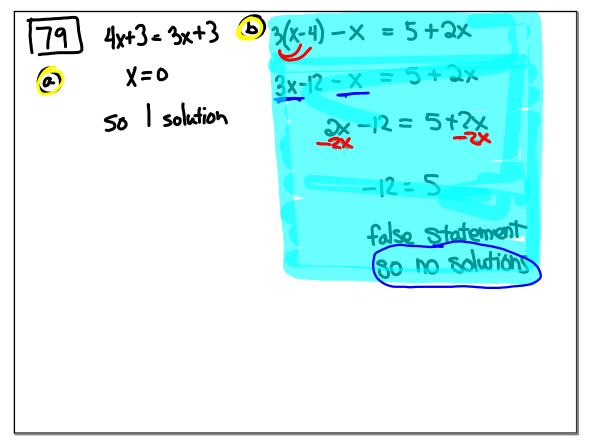


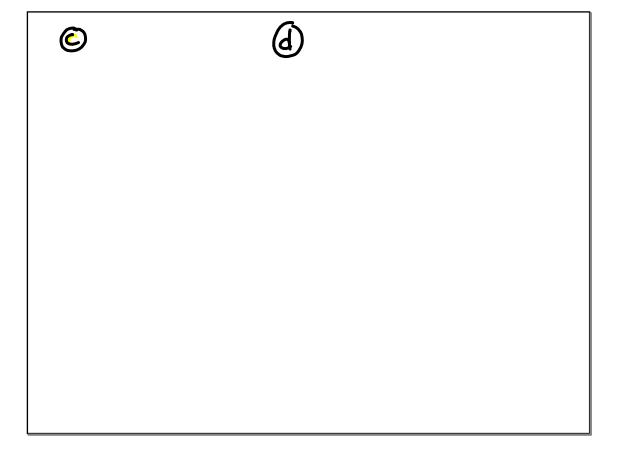
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(b)
$$\frac{10x+25}{2x^2-x-5} = \frac{5(2x+5)}{(2x+5)(x-3)} = \frac{5}{(2x+5)(x-3)}$$

$$\frac{(k-3)(k-4)}{5(2k+1)} \cdot \frac{(k-3)(k-4)}{10(k-3)}$$

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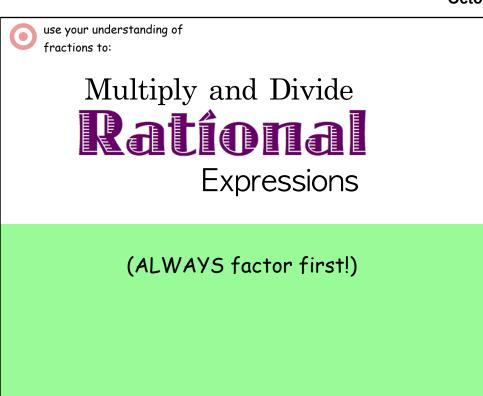


$$y = (x+2)^3+4$$
 b $y = (x+2)(x+2)(x+2)(x+2) + 4$
 $y = (x+2)^3+4$ the rest can be seen in the solutions

LATER TODAY. . . LCQ

- RECENT HW QUESTIONS RECENT CLASS "STUFF"
- SOMETHINGS FROM TODAYS LESSON

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Rational Expression Rational Expression

.

will look like: $\frac{2x-5}{x+3} \cdot \frac{3(x+3)}{2x+10}$

which means: $\frac{3(2 \times -5)(\times +3)}{(\times +3)(2 \times +10)}$

do 3-87

A,b, c, and d

for now

Write down restrictions on a, b, and c only

a.
$$\frac{4x+3}{x+5} \cdot \frac{x+5}{x+3}$$

$$4x+3$$

$$x+3$$

$$x \neq -3$$

$$x \neq 5$$
b.
$$\frac{x+2}{9x-1} \div \frac{2x+1}{9x-1}$$

$$-9x-1=0$$

$$-9x-1=0$$

$$-9x+1=0$$

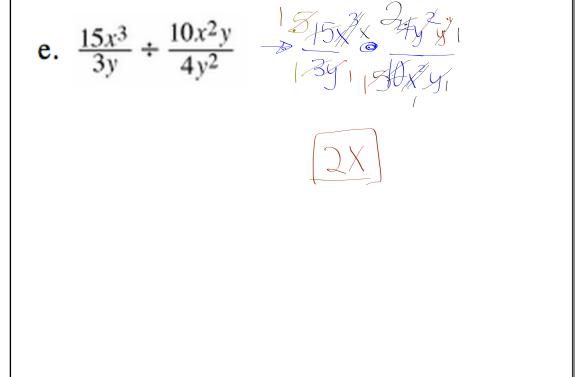
c.
$$\frac{2m+3}{3m-2} \cdot \frac{7+4m}{3+2m}$$
 $m \neq \frac{2}{3}$

d.
$$\frac{(y-2)^{3}}{3y} \cdot \frac{y+5}{(y+2)(y-2)}$$

now @ and f







g

$$\frac{(5x-2)(3x+1)}{(2x-3)^2} = \frac{(5x-2)(x-4)}{(x-4)(2x-3)}$$
No canceling factors if
$$\frac{(5x-2)(3x+1)}{(2x-3)^2} = \frac{(5x-2)(x-4)}{(5x-2)(x-4)}$$

$$= \frac{3x+1}{2x-3}$$

B.B.

higher questions

- a) Write down the problem
- b) Factor everything first
 - c) Then look for factors to cancel.

$$\frac{n^2 - 25}{|0_n + 20|} = \frac{2n^2 - 8}{n^2 + 7n + 10}$$

diff. of simple factoring
$$2(n^2-4)$$
 n^2-25
 $n^2+7n+10 \leftarrow factor as$
a normal trinomial

simple factoring

$$\frac{n^{2}-25}{|0n+20|} = \frac{2n^{2}-8}{n^{2}+7n+10} = \frac{(n+5)(n-5)}{5|0(n+2)|} = \frac{(n+5)(n-5)}{5(n+2)}$$

$$\frac{(n-5)(n-2)}{5(n+7)}$$

$$\frac{|2x-18|}{x-3} - \frac{3x^2-9x-12}{6-2x}$$

Simple simple
$$\frac{3x^2-9x-12}{x-3}$$
 $\frac{3x^2-9x-12}{6-2x}$ then

$$\frac{|2x-18|}{(6-2x)} = \frac{3x^2-9x-12}{(6-2x)}$$

$$\frac{(6(2x-3))}{(x-3)} = \frac{3(x^2-3x-4)}{2(3-x)}$$

$$\frac{(6(2x-3))}{(x-3)} = \frac{2(3-x)}{3(x-4)(x+1)}$$

$$\frac{2x-18}{x+3} \stackrel{?}{\longrightarrow} \frac{3x^2-9x-12}{6-2x}$$

$$0 (2x-3) \stackrel{?}{\longrightarrow} \frac{3(x^2-3x-4)}{2(3-x)}$$

$$\frac{(\sqrt{(2x-3)})}{x-3} \stackrel{?}{\longrightarrow} \frac{2(3-x)}{3(x-4)(x+1)}$$

Assignment:

3 90 to 94, 96