

$$\frac{x}{2} - \frac{2}{x} + \frac{x}{6}$$

Common denominator

for all three

 $\frac{x}{2} - \frac{2}{x} + \frac{x}{6}$

$$\frac{\chi(3x)}{2(3x)} = \frac{\chi(3x)}{\chi(6)} + \frac{\chi(x)}{\zeta(x)}$$

$$\frac{\chi(3x)}{\zeta(3x)} = \frac{\chi(3x)}{\chi(6)} + \frac{\chi(x)}{\zeta(x)}$$
Common denominator for all three

$$\frac{x(3x)}{2(3x)} - \frac{26}{x(6)} + \frac{x(x)}{6(x)}$$

$$\frac{3x^{2} - 12 + x^{2}}{6x}$$

$$\frac{4x^{2} - 12}{6x} - \frac{24(x^{2} - 3)}{36x}$$

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

@ Now Multiply x . - 2 . x

$$\frac{2}{X}$$
 - $\frac{2}{X^2}$ + $\frac{6}{X^2}$ = O(This often get confused with problem 1).

(NOTICE THE DIFFENCE)

$$(6\times)\frac{x}{2} - (26\times) + x(2) = 0(6\times)$$

$$3\times^{2} - 12 + x^{2} = 0$$

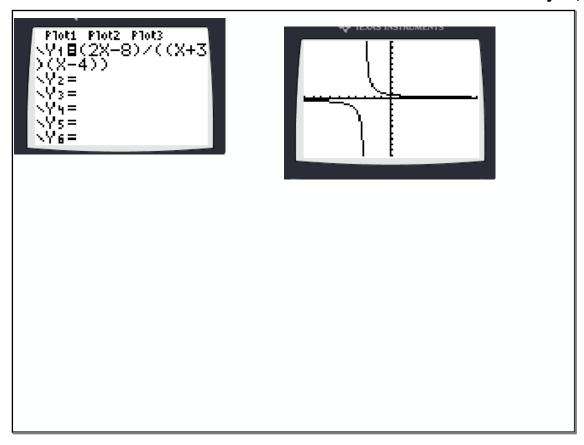
$$4x^{2} = 12$$

$$x^{2} = 3$$

$$x = \pm 13$$

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

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



$$6 \text{ Factor}$$

$$3x^2 - 27x \rightarrow 3(x^2 - 9) \rightarrow 3(x+3)(x-3)$$

$$3x^2 - 27 \rightarrow 9(x+3)(x-3)$$

$$4x^2 - 4 \text{ option 1}$$

$$4x^2 - 4 \text{ option 2}$$

$$2x + 2(2x-2)$$

$$3 \cdot (x+1) \cdot 2(x-1)$$

Questions on Forecasting

Alg 2

IB Mathematical Applications

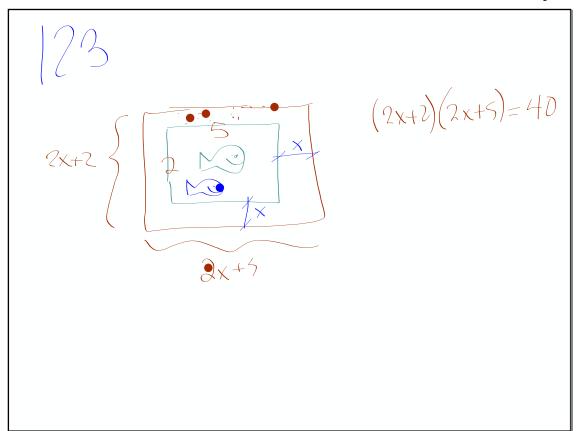
Pre-Calculus OR

AP Statistics (2trimesters) OR

CS 160 (CN comp. sci. 1 tri) OR

AP Comp Sci. Principles (3 tri)

HW QUESTIONS



$$\frac{1}{\chi+2} + \frac{3}{\chi^{2}-4}$$

$$\frac{1}{\chi+2} + \frac{3}{(\chi+2)(\chi-2)}$$

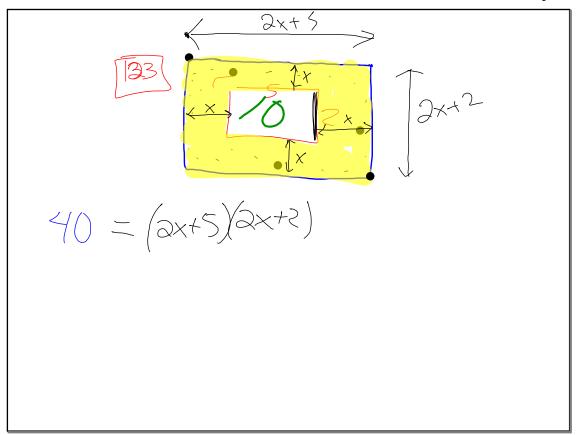
$$\frac{1}{(\chi+2)(\chi-2)}$$

$$\frac{5}{2x+4} - \frac{x}{x^2+4x+4}$$

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

$$\frac{3}{2(x+2)} - \frac{2}{2(x+2)(x+2)}$$

$$\frac{3}{2(x+2)} + \frac{2}{2(x+2)(x+2)}$$



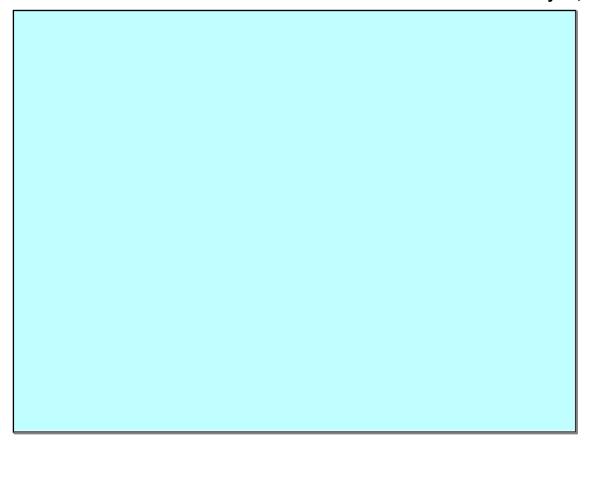
$$121) \sqrt{\chi+2} = 8$$

$$[126]$$
 a $25x^2 - 1$

(b)
$$5x^3-125x$$

(c) $\chi^2 + x-72 = (\chi)$
(d) $\chi^3 - 3x^2-18x$

(d)
$$\chi^{5} - 3\chi^{2} - 18x$$



Ch 3 TEST TOMORROW

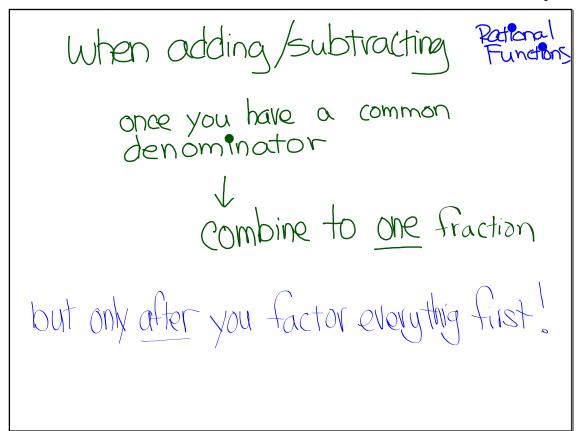
Assemble 95% of your HW packet In class today.



- 1) Go over hints about the test
- 2) Arrange/staple your assignments
- 3 Prepare for tomorrow's Ch. 3 Test

If multiplying or dviding rational expressions

no common denominator needed.



$$\frac{3}{2\chi+4} - \frac{\chi}{\chi^2 + 4\chi+4} \rightarrow (2\chi+4)(\chi^2+4\chi+4)$$

Factoring can take up a lot of space depending on the problem. I don't need to see this work so show factoring work on scratch paper on the test. Two types of scratch paper.

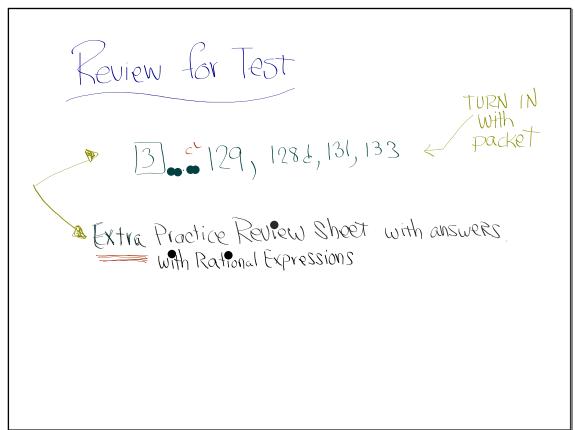
just scratch.... but must turn it in. Name not necessary.

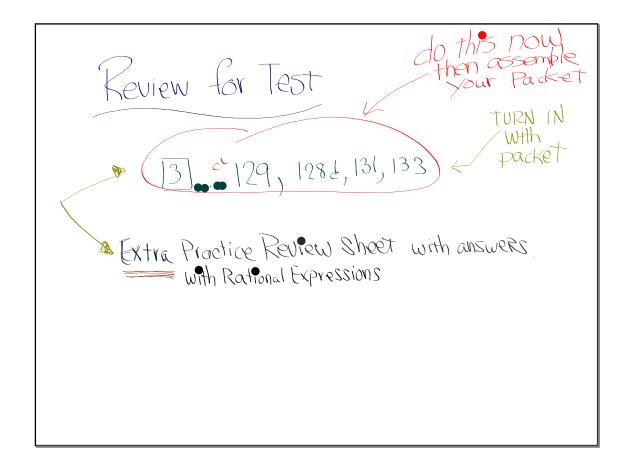
However, if you you run out of room on a problem or you don't want to erase then add your name and staple it to your test.

Write a note "see scratch paper"

Ch. 3 Homework Packet includes up to today's textbook assignment







<u>(a)</u>	n(2n+1)(2n-1)
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$$4n^2-n$$

(2x-1)² $4x^2-1$

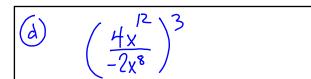
•

$$(2x-1)^2 \qquad 4x^2 - 1$$

$$(2x-1)(2x-1) \qquad \neq 4x^2 - 1$$

$$(2x-1)(2x-1) \qquad = 4x^2 - 1$$

-8×15



(e)
$$2x-3y=6$$
 $y=\frac{2}{3}x+6$

(f)	108	613

February	18,	2020
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