Stats for 1st Exam

100 : 6

90's : 7

80's : 4

70's : 1

60's : 3

<60 : 7

5-Step Trinomial Method:

Format: $\_\_x^2 + \_\_x + \_\_$

OR

$\_\_x^2 + \_\_xy + \_\_y^2$

Variables are "squares" of what you're used to.

Also $\_\_x^4 + \_\_x^2 + \_\_$

e.g. $2x^4 - 9x^2 - 5$

$2x^4 - 10x^2 + 1x^2 - 5$

$p = -10$
$s = -9$
$-10, +1$

$(2x^4 - 10x^2) + 1(x^2 - 5)$

$2x^2(x^2 - 5) + 1(x^2 - 5)$

$\boxed{(2x^2 + 1)(x^2 - 5)}$

Worksheet #1 (p. 145 of yellow book)

3. $\dfrac{h^2+2h+1}{h^2+3h+2} \div \dfrac{(h+3)^2}{h^2-9} \cdot \dfrac{h+1}{h^2+5h+6}$

BEDMAS

brackets

exponents

$\div \times$ $+ -$

If there are brackets, do that op first, if not do $\times \div$ before $+ -$.

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

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

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

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

(CD) $(h+2)(h-3)$

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

(M) $$\frac{h^2-2h-3}{C.D.} + \frac{h+1}{C.D.}$$

(A/S) $$\frac{h^2-2h-3+h+1}{C.D.}$$

(S) $$\frac{h^2-h-2}{C.D.} \rightarrow \text{(AB)} \quad \boxed{\frac{(h-2)(h+1)}{(h+2)(h-3)}}$$

(9)

$$\frac{(a-b)}{(x-y)} \cdot \frac{(y-x)}{(b-a)} + \frac{1}{a+b}$$

$$\frac{-1(b-a)}{-1(y-x)} \cdot \frac{(y-x)}{(b-a)}$$

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

C.D. $(a+b)$

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

$$\boxed{\frac{a+b+1}{a+b}}$$

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$$\frac{a^2}{a^2-b^2} - \frac{b^2}{a+b} \cdot \frac{4a^2+2ab-2b^2}{4ab^2-2b^3}$$

$$\frac{b^2}{(a+b)} \cdot \frac{2(2a-b)(a+b)}{2b^2(2a-b)}$$

$$\frac{a^2}{a^2-b^2} - \frac{1}{1}$$

(AB) $$\frac{a^2}{(a-b)(a+b)} - \frac{1}{1}\frac{(a+b)(a-b)}{(a+b)(a-b)}$$

(CD)(EF)

(M) $$\frac{a^2}{C.D} - \frac{(a^2-b^2)}{C.D.}$$

(A/S) $$\frac{a^2-a^2+b^2}{C.D}$$

(S) $$\frac{b^2}{(a+b)(a-b)}$$

(33) $\dfrac{a^3-ab^2}{(a-b)^2(a+2b)} \div \left(\dfrac{a+b}{a^2+ab-2b^2} - \dfrac{a+b}{a^2-2ab+b^2}\right)$

AB $\dfrac{a+b}{(a+2b)(a-b)} - \dfrac{a+b}{(a-b)(a-b)}$

CD $(a+2b)(a-b)^2$

EF $\dfrac{(a+b)(a-b)}{(a+2b)(a-b)(a-b)} - \dfrac{(a+b)(a+2b)}{(a-b)(a-b)(a+2b)}$

M $\dfrac{a^2-b^2}{C.D.} - \dfrac{(a^2+3ab+2b^2)}{C.D.}$

$\dfrac{a^2-b^2-a^2-3ab-2b^2}{C.D.}$

$\dfrac{-3b^2-3ab}{C.D} = \dfrac{-3b(b+a)}{(a+2b)(a-b)^2}$

$\dfrac{a^3-ab^2}{(a-b)^2(a+2b)} \div \dfrac{-3b(b+a)}{(a+2b)(a-b)^2}$

$\dfrac{a(a-b)(a+b)}{(a-b)^2(a+2b)} \cdot \dfrac{(a+2b)(a-b)^2}{-3b(b+a)}$

$\boxed{\dfrac{a(a-b)}{-3b}}$

(34)

$$\frac{(2x+2y)(x^2y)}{(2xy+2y^2)(x^2-xy)} - \frac{9y^2-x^2}{x^3-3x^2y} \div \frac{3y^2-2xy-x^2}{x^2y}$$

$$\frac{9y^2-x^2}{x^3-3x^2y} \cdot \frac{x^2y}{3y^2-2xy-x^2}$$

$$\frac{-1(x-3y)}{(3y-x)(3y+x)} \cdot \frac{x^2y}{(3y+x)(y-x)}$$

$$\frac{2(x+y)x^2y}{2y(x+y)x(x-y)} - \frac{-y}{y-x}$$

$$\frac{x}{x-y} + \frac{-y}{y-x}$$

$$\frac{x}{x-y} + \frac{-y}{(x-y)}$$

$$\frac{x-y}{x-y} = \boxed{1}$$

Do Worksheet # 1 (the only 1). Handwritten answers given out.
Do pretests A, B, C, and D in back of yellow book. Exam next Wed (or mon or tues if u want).