

$$\textcircled{1} \frac{3x+2}{x+5} - \frac{8x+6}{3x+15} = 1 \quad x \neq -5$$

$$\frac{3 \cdot (3x+2)}{3(x+5)} - \frac{(8x+6)}{3(x+5)} = 1$$

$$\frac{9x+6 - 8x - 6}{3(x+5)} = 1$$

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

$$x = 3(x+5)$$

$$x = 3x + 15$$

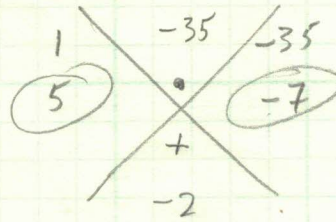
$$-15 = 2x$$

$$\boxed{\frac{-15}{2} = x}$$

Factoring with the Big X

$$x^2 - 2x - 35 = 0$$

$$(x+5)(x-7) = 0$$



Meet 4

Notes

(Mr. Mac's)

leading coefficient must be 1

the "Big X"

highly

composite

$$x^2 + 3x - 180 = 0$$

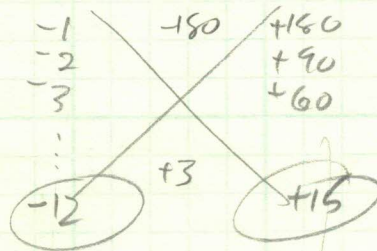
Solve

$$\textcircled{1} 6x^2 - 4x + 24 = 0$$

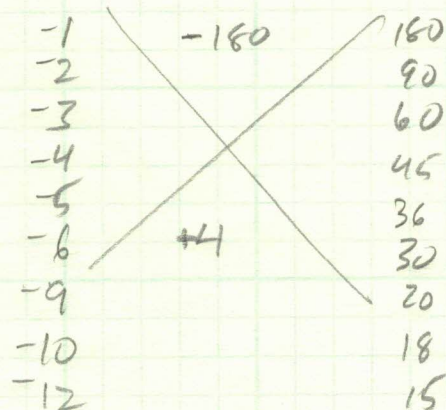
$$3x^2 - 2x + 12 = 0$$

= not factorable

Solve by



$$x^2 + 4x - 180 = 0$$



the "Box Method"

and the "Big X"

See video link in

Meet 4 Event A notes

∴ Not factorable (no pair adds to 4)