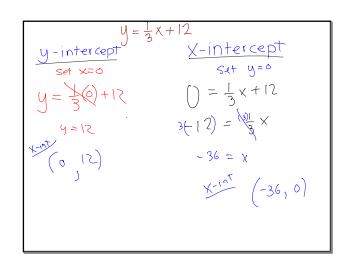
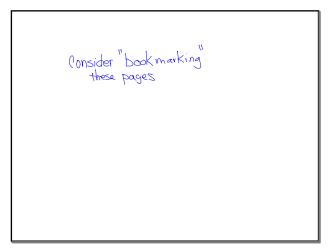
NOTES January 19, 2018

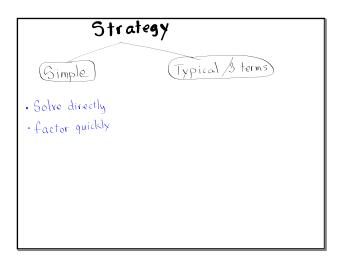
Warm Up notes Find the x- and yintercepts of $y = \frac{1}{3}x + 12$ algebraically.
Then check with your
GDC



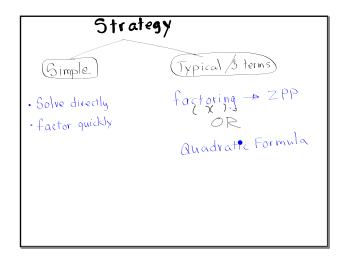
Today · Solve both Simple and Typical Quadratic Equations

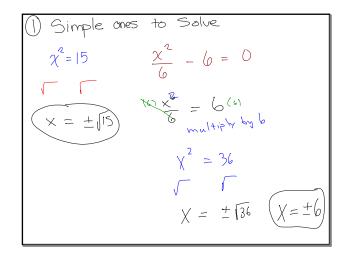


First, an Overview



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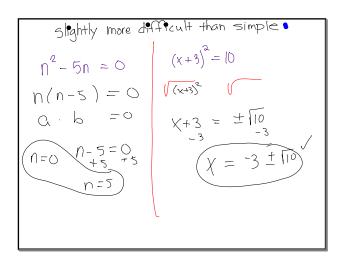


$$2x^{2}-50=0 2x^{2}=50$$

$$2(x^{2}-25) = 0$$

$$x^{2}-25 = 0$$

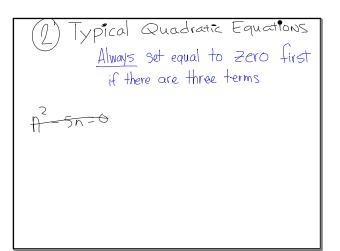
$$(x+5)(x-5) = 0$$



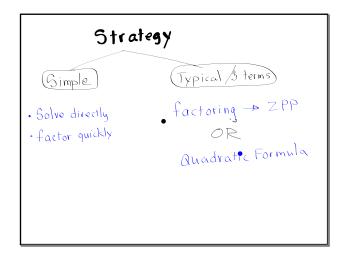
$$h^2 - 5n = 6$$

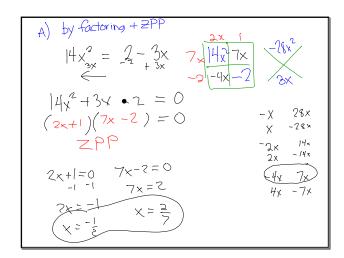
$$h^2 = 5x$$

$$h = 5$$

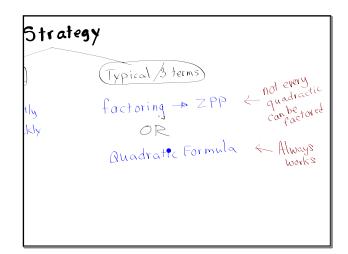


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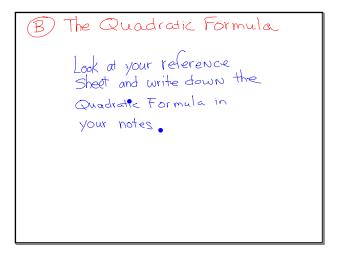


If it can't be factored, then
you must use the quadratic
formula.



There will not be any homework tonight.

We will work hard right up to the end of the period



$$QX^{2} + bx + C = 0$$

$$7x^{2} - 2x - 6 = 0$$

$$X = \frac{-b \pm \sqrt{b^{2} - 4ac}}{2a}$$

Shell
$$\chi = \frac{-() \pm \sqrt{()^2 - 4()()}}{2()}$$

$$X = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$
Shell
$$X = \frac{-b + \sqrt{b^2 - 4ac}}{2a}$$

Another example:
$$-5x = 3x^2 + 2$$

$$-3x^2 - 5x - 2 = 0$$

$$0 = -3$$

$$b = -5$$

$$0 = -5$$

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LCQ (open Notes)

Solve ①
$$2n^2 - 8 = 0$$

② $\chi^2 - ||x + 10 = 0$

Use any method