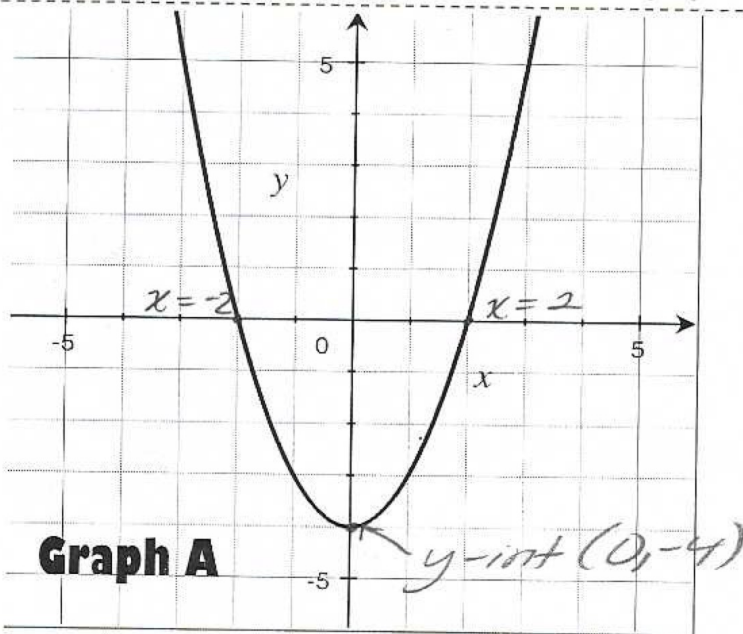


Activity: What's My Quadratic Name in Standard form: $y = ax^2 + bx + c$?

Name: Key

Alg. 1 H - Jan. 8 Glue on page 92

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The zeros (roots) are:

$$x = \frac{-2}{1}, x = \frac{2}{1}$$

Factors $(x+2)(x-2) = 0$

$$x(x-2) + 2(x-2) = 0 \quad \text{distributive method}$$

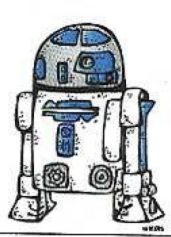
$$x^2 - 2x + 2x - 4 = 0$$

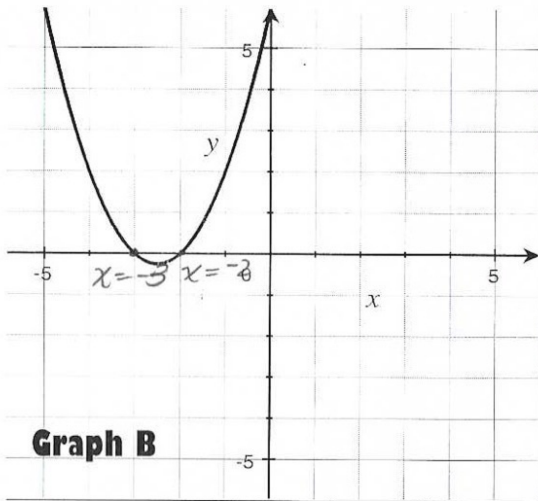
Equation: $y = x^2 - 4$

y-intercept = $(0, -4)$

$y = x^2 - 4$

R-2D2





The zeros (roots) are:

$$x = -3, x = -6$$

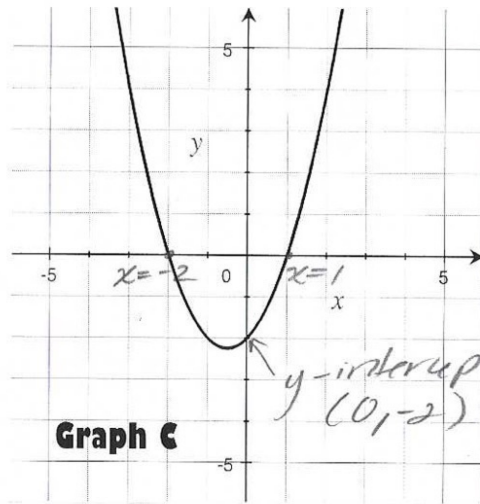
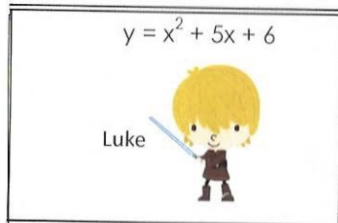
Factors $(x+3)(x+6) = 0$

$$x(x+6) + 3(x+6) = 0$$

$$x^2 + 6x + 3x + 6 = 0$$

Equation: $y = x^2 + 9x + 6$

y-intercept = $(0, 6)$ "0" → y-intercept



The zeros (roots) are:

$$x = -2, x = 1$$

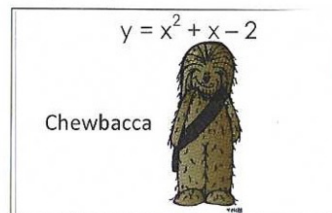
Factors $(x+2)(x-1) = 0$

$$x(x-1) + 2(x-1) = 0$$

$$x^2 - 1x + 2x - 2 = 0$$

Equation: $y = x^2 + x - 2$

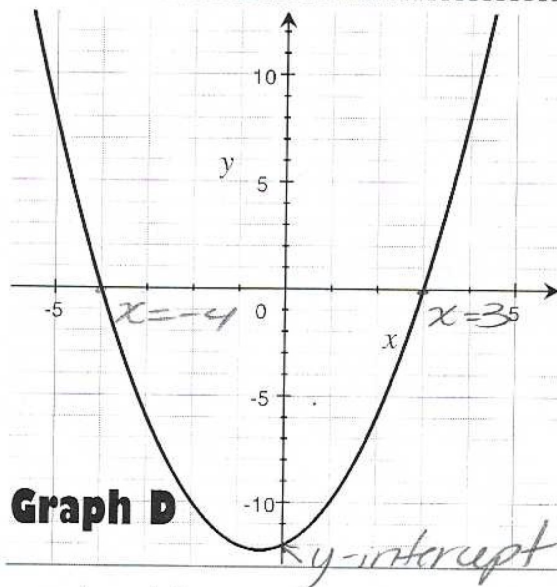
y-intercept = $(0, -2)$



Activity: What's My Quadratic Name in Standard form: $y = ax^2 + bx + c$?

Name: Key
Alg. 1 H - Jan. 8 Glue on page 93

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The zeros (roots) are:

$$x = -4, x = 3$$

Factors $(x + 4)(x - 3) = 0$

x	$+4$
x^2	$+4x$
-3	-12

 $= 0$

Box method

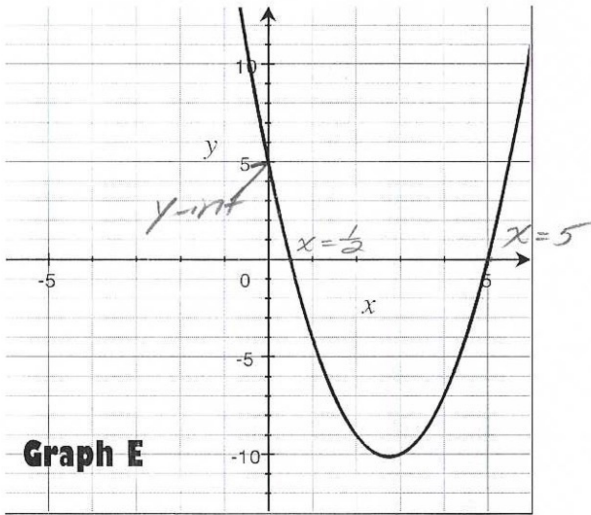
Equation: $y = x^2 + 1x - 12$

y-intercept = $(0, -12)$

$$y = x^2 + x - 12$$

Yoda





The zeros (roots) are:

$$x = \frac{1}{2}, x = 5$$

Factors $(x - \frac{1}{2})(x - 5) = 0$

$$(2x - 1)(x - 5) = 0$$

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

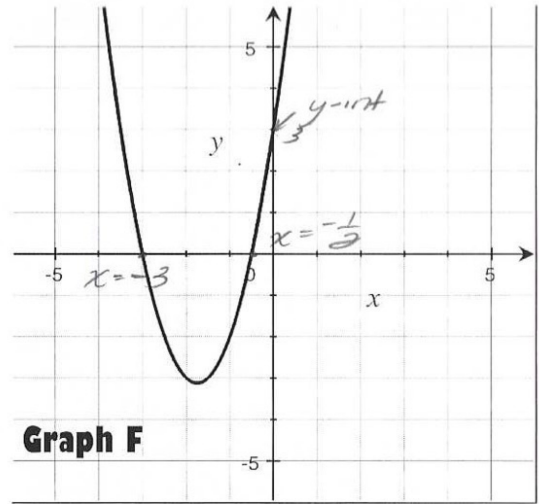
$$2x^2 - 10x - 1x + 5$$

Equation: $y = 2x^2 - 11x + 5$

y-intercept = $(0, 5)$

$$y = 2x^2 - 11x + 5$$

Darth Vader



The zeros (roots) are:

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

Factors $(x + 3)(x + \frac{1}{2}) = 0$

$$(x + 3)(2x + 1) = 0$$

Equation: $y = 2x^2 + 7x + 3$

y-intercept = $(0, 3)$

$$y = 2x^2 + 7x + 3$$

C-3PO

