

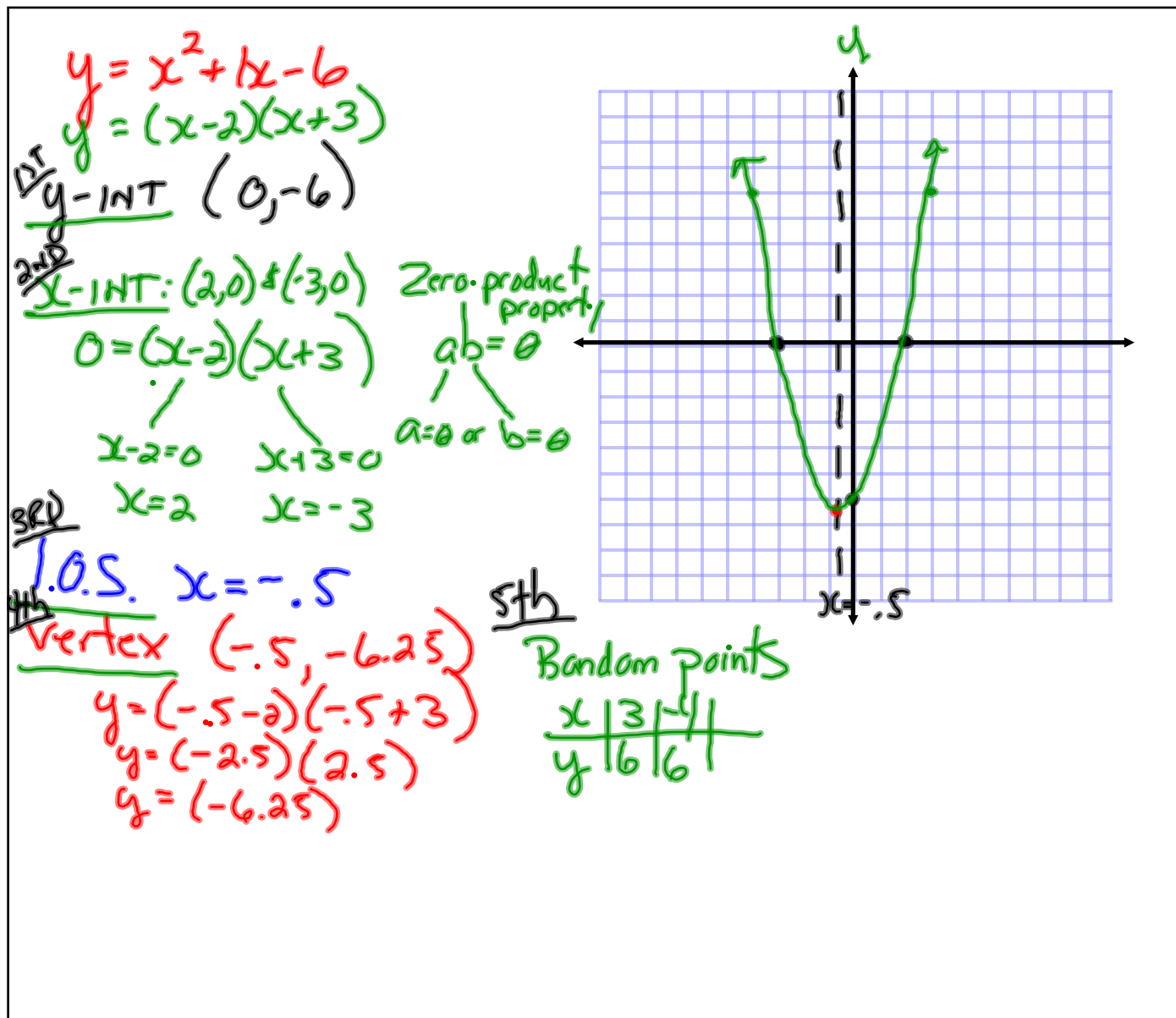
## Geometry



$$\text{Area} = 900 \text{ cm}^2$$

$$x = \text{ } \text{ cm}$$

OK



$$y = x^2 - 2x - 8$$

1ST y-INT:  $(0, -8)$

2ND x-INT(s):

$$0 = x^2 - 2x - 8$$

$$0 = (x-4)(x+2)$$

Zero P.P.

$$a_0 = 0$$

$a=0$  or  $b=0$

$$x-4=0$$

$$x=4$$

$$(4, 0)$$

$$x+2=0$$

$$x=-2$$

$$(-2, 0)$$

3rd

1.O.S.

$$x=1$$

4TH vertex  $(1, -9)$

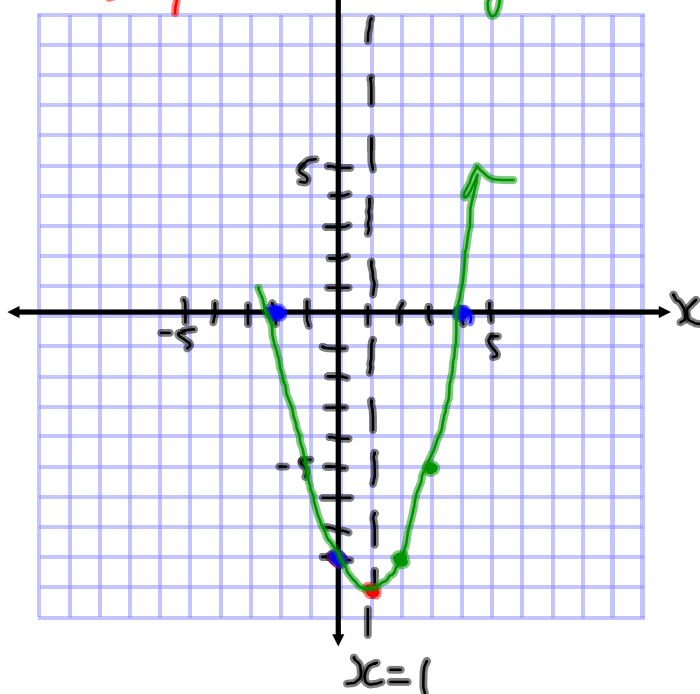
$$y = (1)^2 - 2(1) - 8$$

$$= 1 - 2 - 8$$

$$= -9$$

y-axis

5th random points

$$\frac{x}{y} \begin{array}{|c|c|c|} \hline 2 & 3 & 3 \\ \hline 1 & 8 & -5 \\ \hline \end{array}$$


$$y = x^2 - 2x - 8$$

$$y = (x+2)(x-4)$$

1st y-INT  $(0, -8)$

2nd x-INT

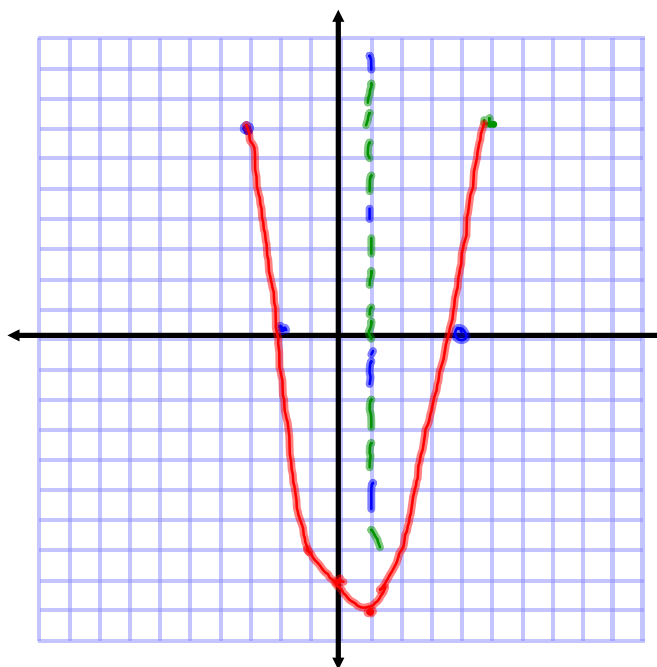
$(4, 0) (-2, 0)$

3rd I.O.S  $x = 1$

4th\* vertex  $(1, -9)$

5th 2 random points

$$\begin{array}{r|l} x & -3 \\ \hline 4 & 7 \end{array} \quad \begin{array}{r|l} 5 \\ \hline 7 \end{array}$$



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$$y = x^2 + 4x - 5$$

$$9 - 12 - 5$$

1st y-int

$$(0, -5)$$

2nd x-int

$$(-5, 0)(1, 0)$$

3rd L.O.S.

$$x = -2$$

4th vertex

$$(-2, -9)$$

5th 2 random points

$$\begin{array}{r|l} x & 2 \\ \hline y & -3 \end{array}$$

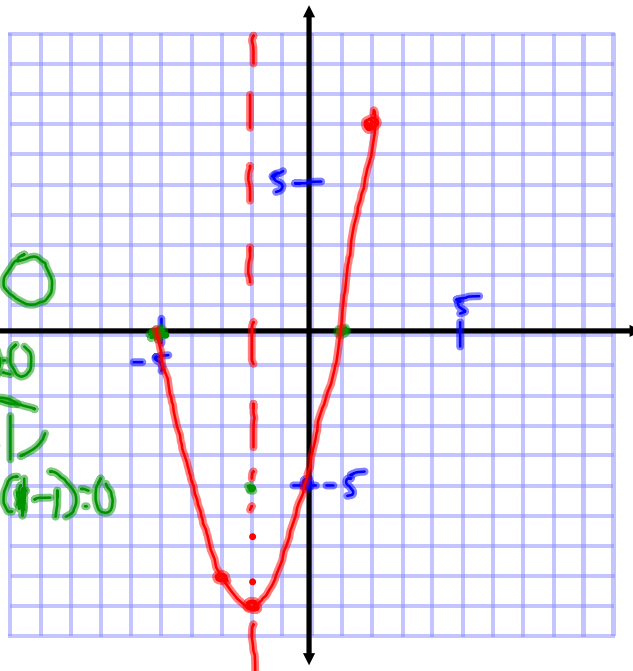
$$\begin{array}{r|l} x & 7 \\ \hline y & 8 \end{array}$$

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

$$(x+5) = 0 \quad (x-1) = 0$$

$$x = -5 \quad x = 1$$

$$(-5+5) = 0 \text{ and } (1-1) = 0$$



$$y = x(x-4)$$

1ST y-INT

(0,0)

2ND x-INT

$$y = x(x-4)$$

$$0 = x(x-4)$$

$$\begin{array}{l} x=0 \quad x-4=0 \\ (0,0) \quad (4,0) \end{array}$$

3RD L.O.S.

\*4th Vertex

$$y = x(x-4)$$

$$y = (2)(2-4)$$

$$y = 2(-2) = -4$$

Zero-product property

$$ab = 0$$

$$a = 0$$

$$b = 0$$

$$x = 2$$

(x, y)  
(2, y-value)

(2, -4)

sth 2 more pts

$$\begin{array}{r|l|l} x & 1 & 3 \\ \hline y & -3 & 3 \end{array}$$