Example:

$1x^2$ $a=1$ $b=-1$ $c=7$ Oct. 13, 2017

Make a table of values, then sketch the graph of the relation $y = x^2 - x + 7$.

$y=(0.5)^2 - 0.5 + 7 = 6.75$

$(-2)^2-(-2)+7$
$4+2+7$
$1+1+7=9$

AOS: $\frac{-2+3}{2} = 0.5$

$x = \frac{0+1}{2}$

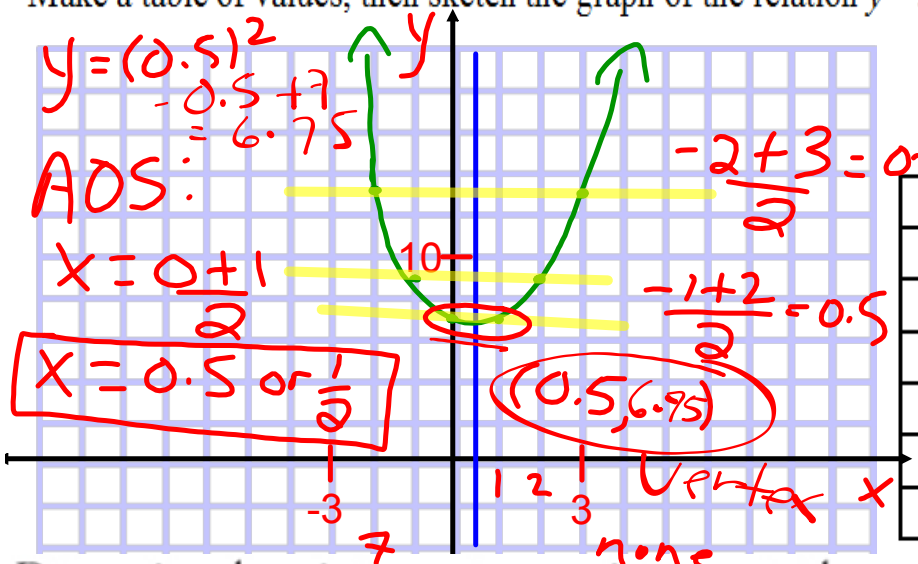
$\frac{-1+2}{2} = 0.5$

$x = 0.5$ or $\frac{1}{2}$

(0.5, 6.75)

Vertex

x	y
–2	13
–1	9
0	7
1	7
2	9
3	13



7

none

Determine the y-intercept, any x-intercepts, the equation of the axis of symmetry, the coordinates of the vertex, and the domain and range of the function.

min value: 6.75

D: $\{x \mid x \in R\}$

R: $\{y \mid y \geq 6.75, y \in R\}$

Attachments

7s2e2 final.mp4

7s2e4 final.mp4

7s2e3 final.mp4

fm7s2-p8.tns