

ABC Spelling & Grammar
Thesaurus
ABC Word Count
Proofing

Smart Lookup
Insights

Translate Language
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New Comment
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Tracking

No Markup
Show Markup
Reviewing Pane
Changes

Accept
Changes

Compare
Compare

Protect
Protect

Start Inking
Ink

Linked Notes
OneNote

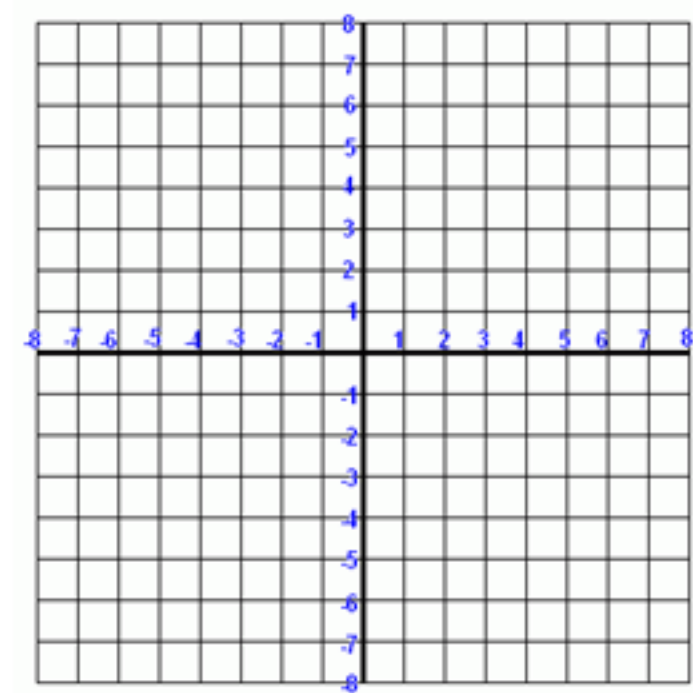
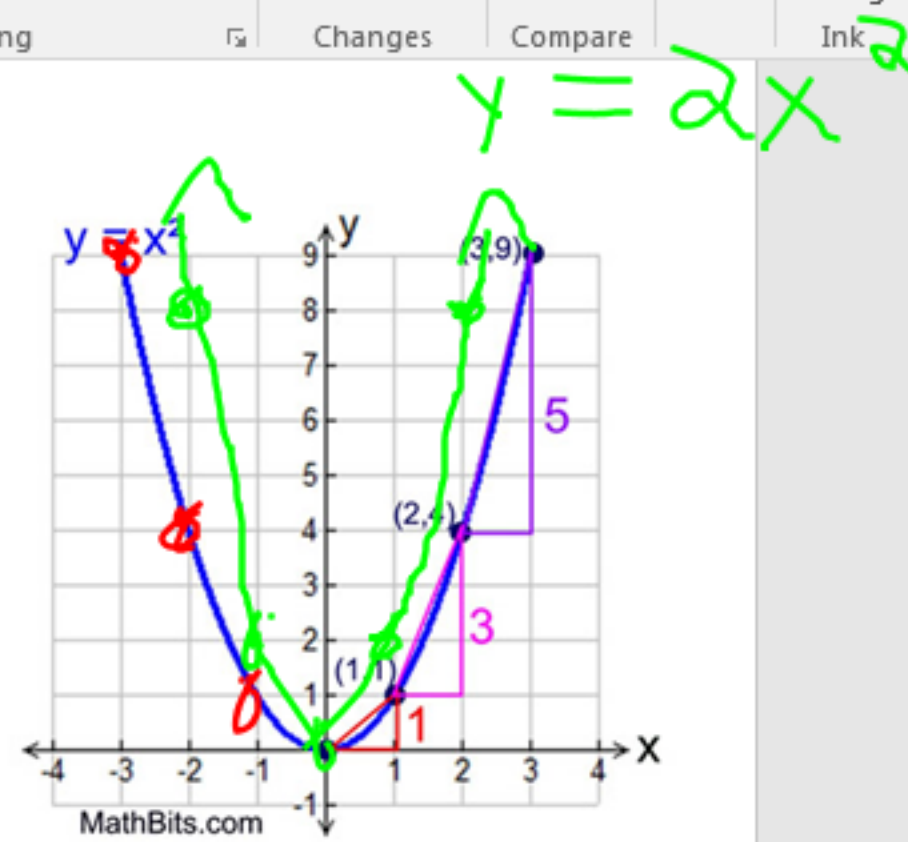
The Step pattern from the vertex for graphing $y=x^2$ is

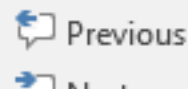
Over 1 - up 1
Over 1 - up 3
Over 1 - up 5

The Step pattern for graphing $y = 2x^2$. Is

Over 1 - up $1 \times 2 = 2$
Over 1 - up $3 \times 2 = 6$
Over 1 - up $5 \times 2 = 10$

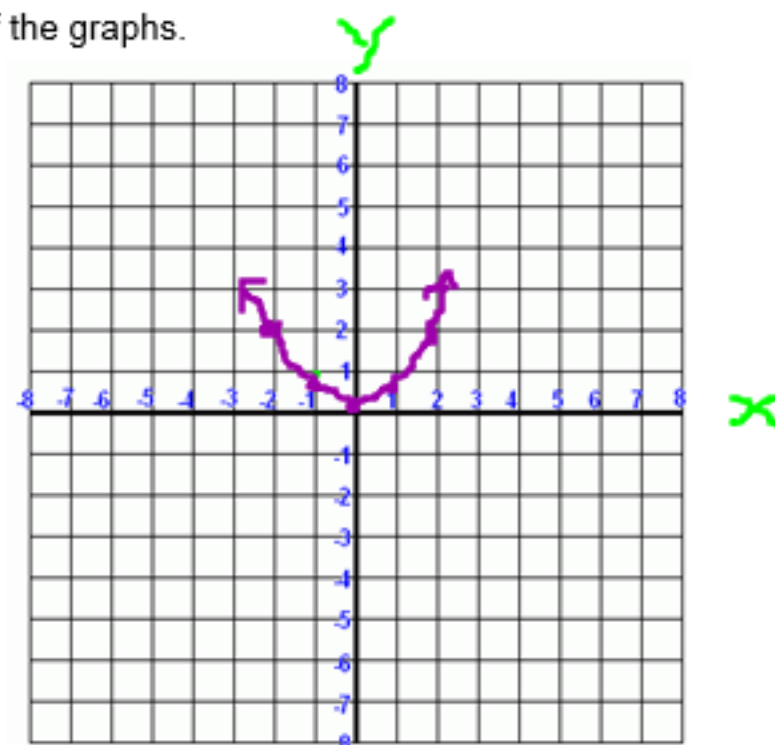
Make tables of values for $y = \frac{1}{2}x^2$ and $y = -2x^2$. Then, make a sketch of the graphs.





X	$y = \frac{1}{2}x^2$	Y
-2	$\frac{1}{2}(-2)^2$	2
-1	$\frac{1}{2}(-1)^2$	0.5
0	$\frac{1}{2}(0)^2$	0
1	$\frac{1}{2}(1)^2$	0.5
2	$\frac{1}{2}(2)^2$	2

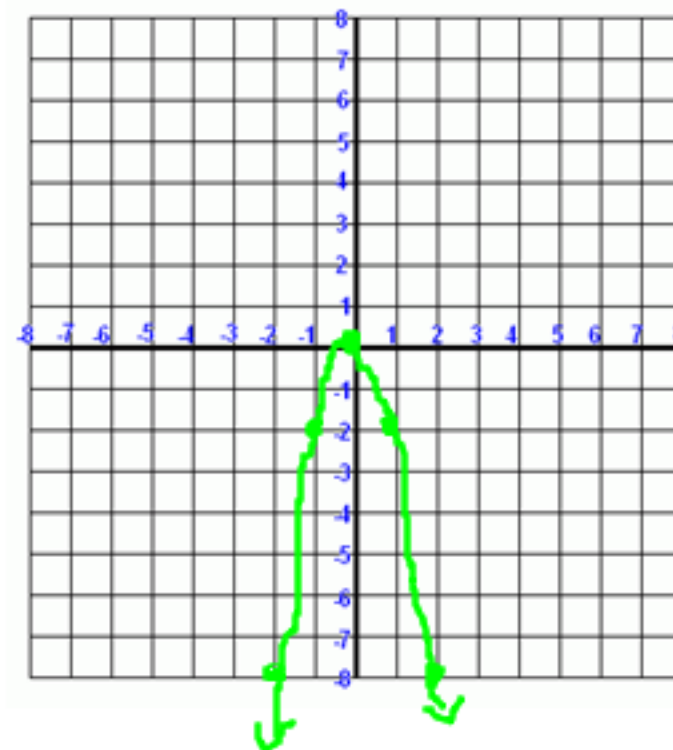
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Course: Grade 10 Mathematics

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x	$-2x^2$	y
-2	$-2(-2)^2$	-8
-1	$-2(-1)^2$	-2
0	$-2(0)^2$	0
1	$-2(1)^2$	-2
2	$-2(2)^2$	-8



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Things you will learn about Quadratics:

Standard Form	Zeros Form	Vertex Form
$y = ax^2 + bx + c$	$y = \underline{a}(x-s)(x-t)$	$y = \underline{a}(x-h)^2 + k$

Vertex	Zeros	y-int	Vertical Stretch	Horizontal Shift	Vertical Shift	Axis of Symmetry AoS	Max/Min Value
(h, k)	s and t	c	a	h	k	x = h	Max or min value of k

☆ step pattern

The Step pattern from the vertex for graphing $y=x^2$ is

Over 1 - up _____

Over 1 - up _____

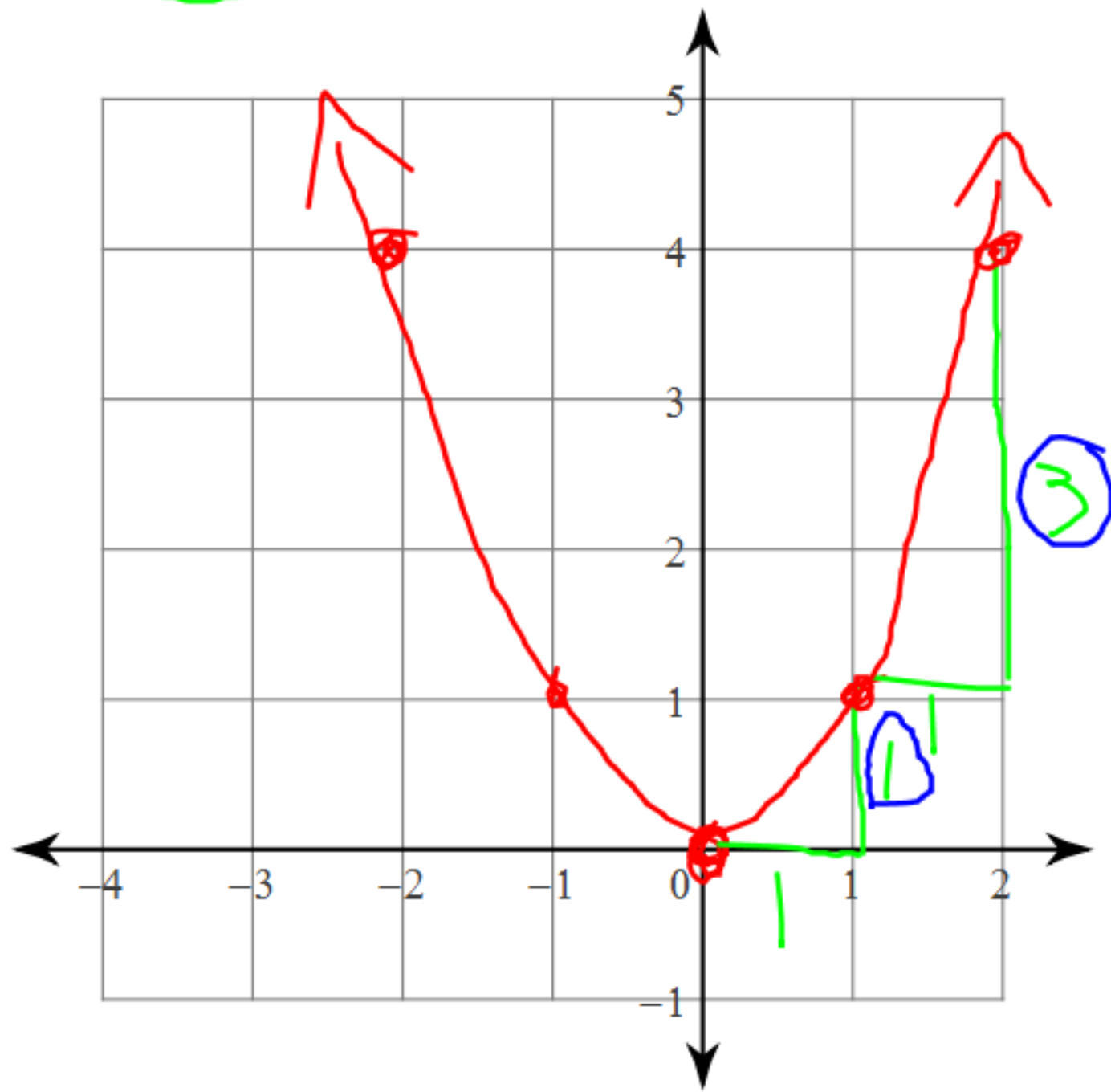
Over 1 - up _____

The Step pattern for graphing $y = 2x^2$. Is

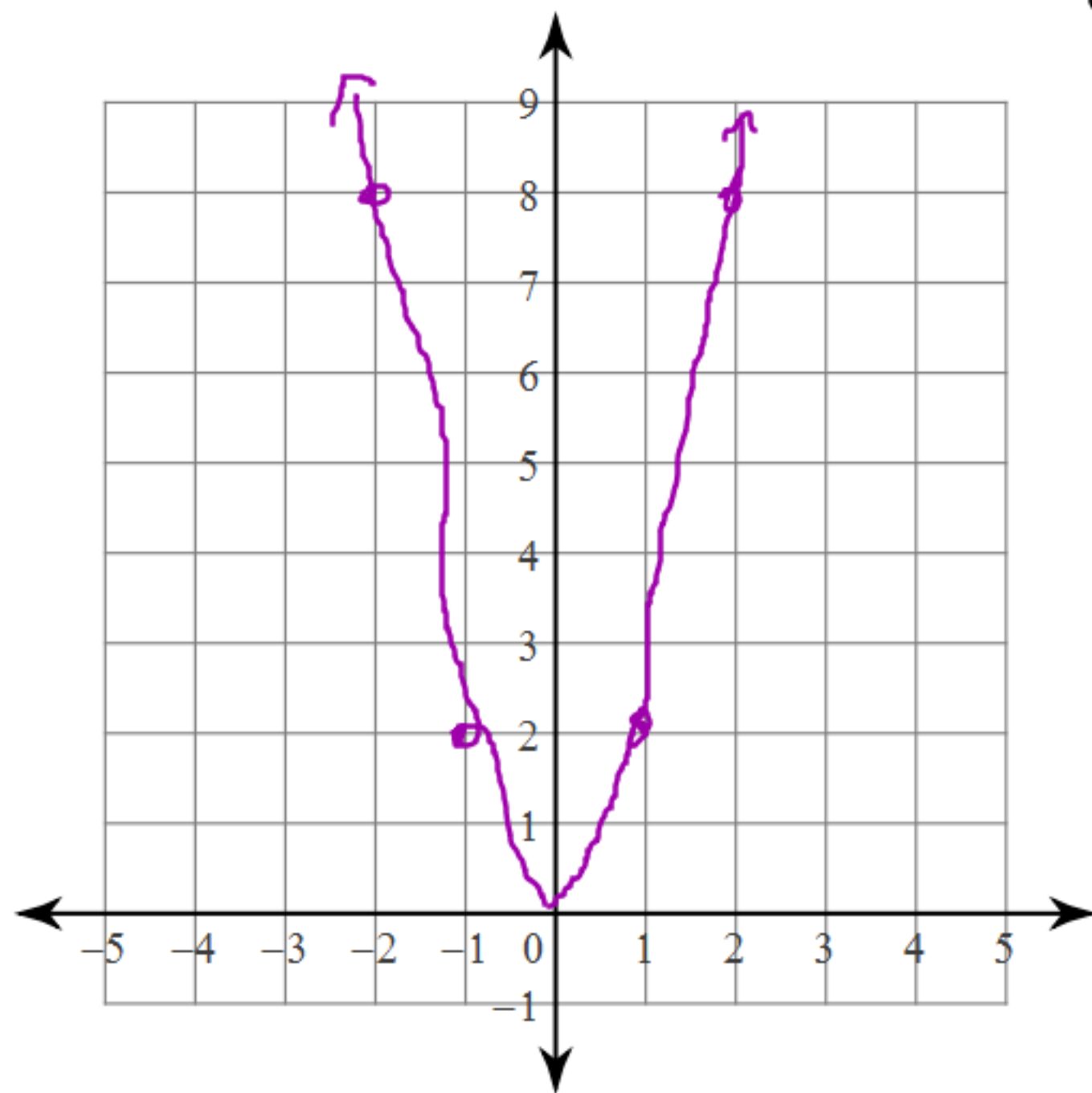
Over 1 - up _____

Over 1 - up _____

1) $y = x^2$



2) $y = 2x^2$



over 1, up 1 $\times 2 = 2$

over 1, up 3 $\times 2 = 6$

over 1, up 5 $\times 2 = 10$