

Solve each equation by factoring.

4) $n^2 - 18 = -3n$

$$X - 18$$

$$n^2 + 3n - 18 = 0 \quad + 3$$

$$(n+6)(n-3) = 0$$

$$6, -3$$

either $n+6=0$ or $n-3=0$

$$n = -6$$

$$n = 3$$

S.S. $\left\{ -6, 3 \right\}$

Solve each equation by factoring.

14) $4n^2 = 12n$

$$4n^2 - 12n = 0$$

$$\overbrace{4n}^{4n} \overbrace{(n-3)}^{4n} = 0$$

$$\text{either } \overbrace{4n}^{4n} = 0 \text{ or } \overbrace{n-3}^{+3} = 0$$

$$\overbrace{4}^4 \overbrace{4}^4$$

$$n = 0$$

$$n = 3$$

$$SS \{0, 3\}$$

- ☒ Question numbers ☐ Show answers
☒ Directions ☒ Changing questions hides answers
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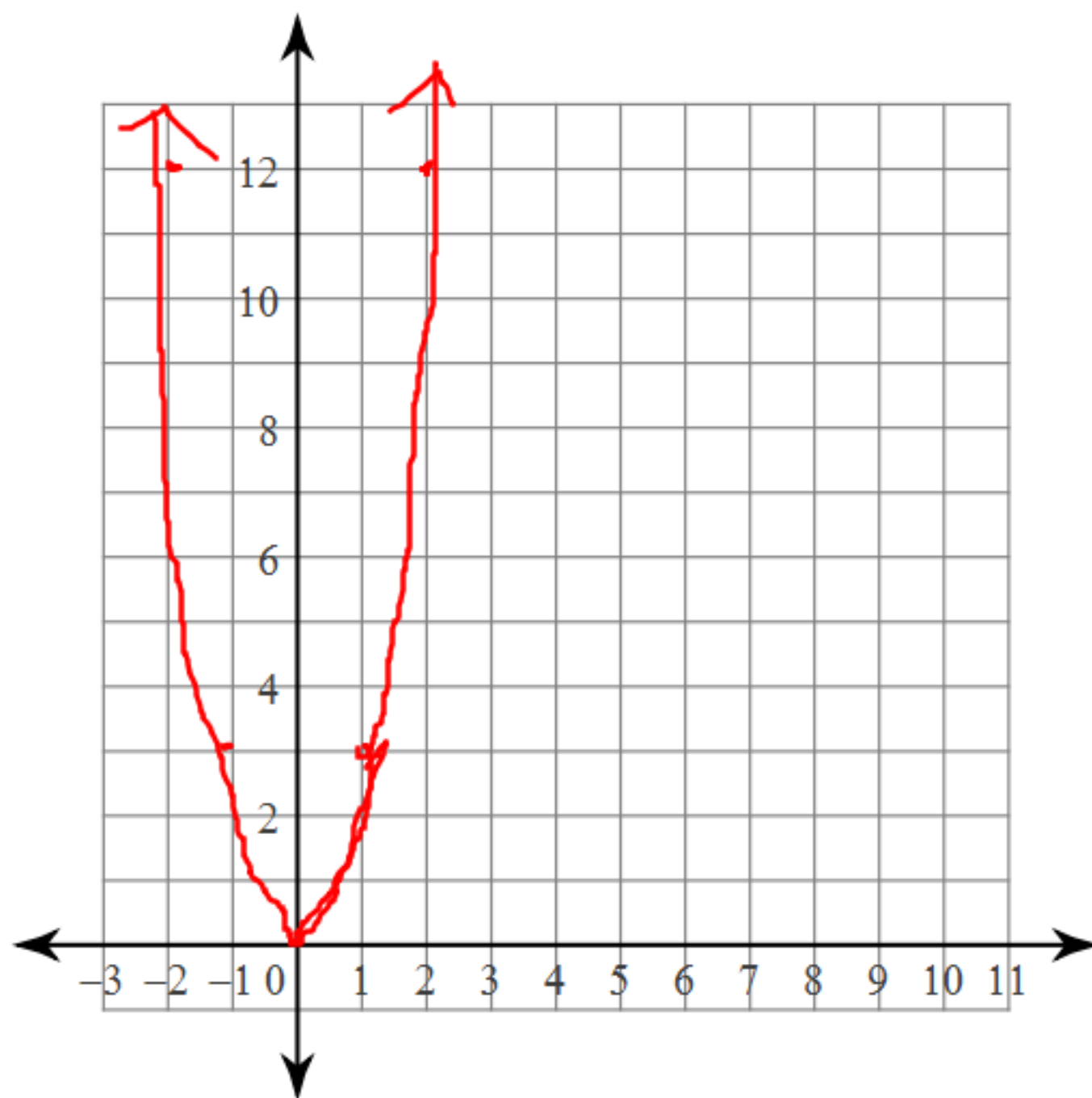


Jump



1-up

4) $y = 3x^2$



$$y = 3x^2$$

x	y
2	12
1	3
0	0
-1	3
-2	12

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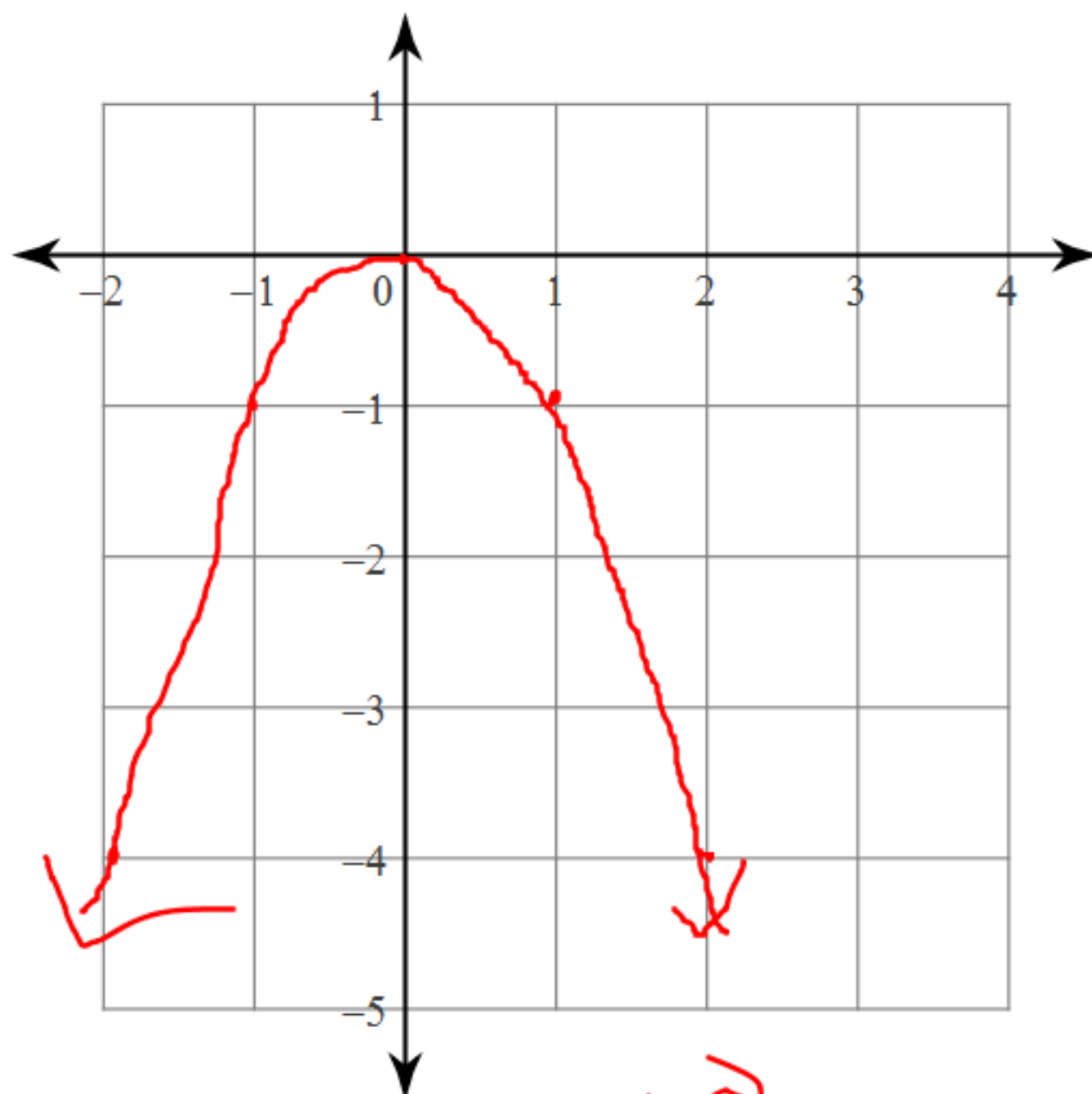
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Jump



1-up

5) $y = -x^2$



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

$$y = -x^2$$

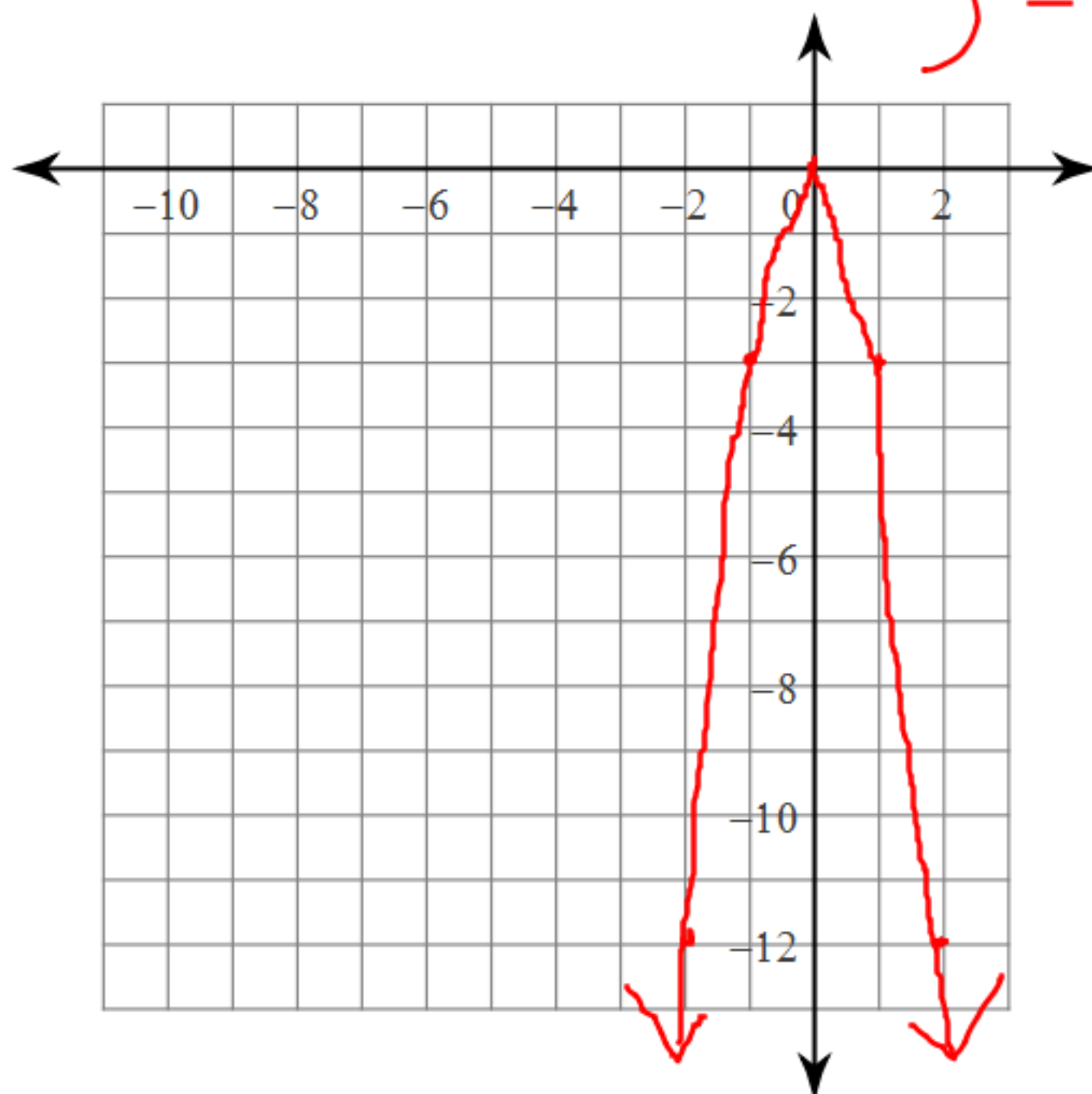
x	y
2	-4
1	-1
0	0
-1	-1
-2	-4

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1-up

6) $y = -3x^2$



$$y = -3x^2$$

x	y
+2	-12
1	-3
0	0
-1	-3
-2	-12

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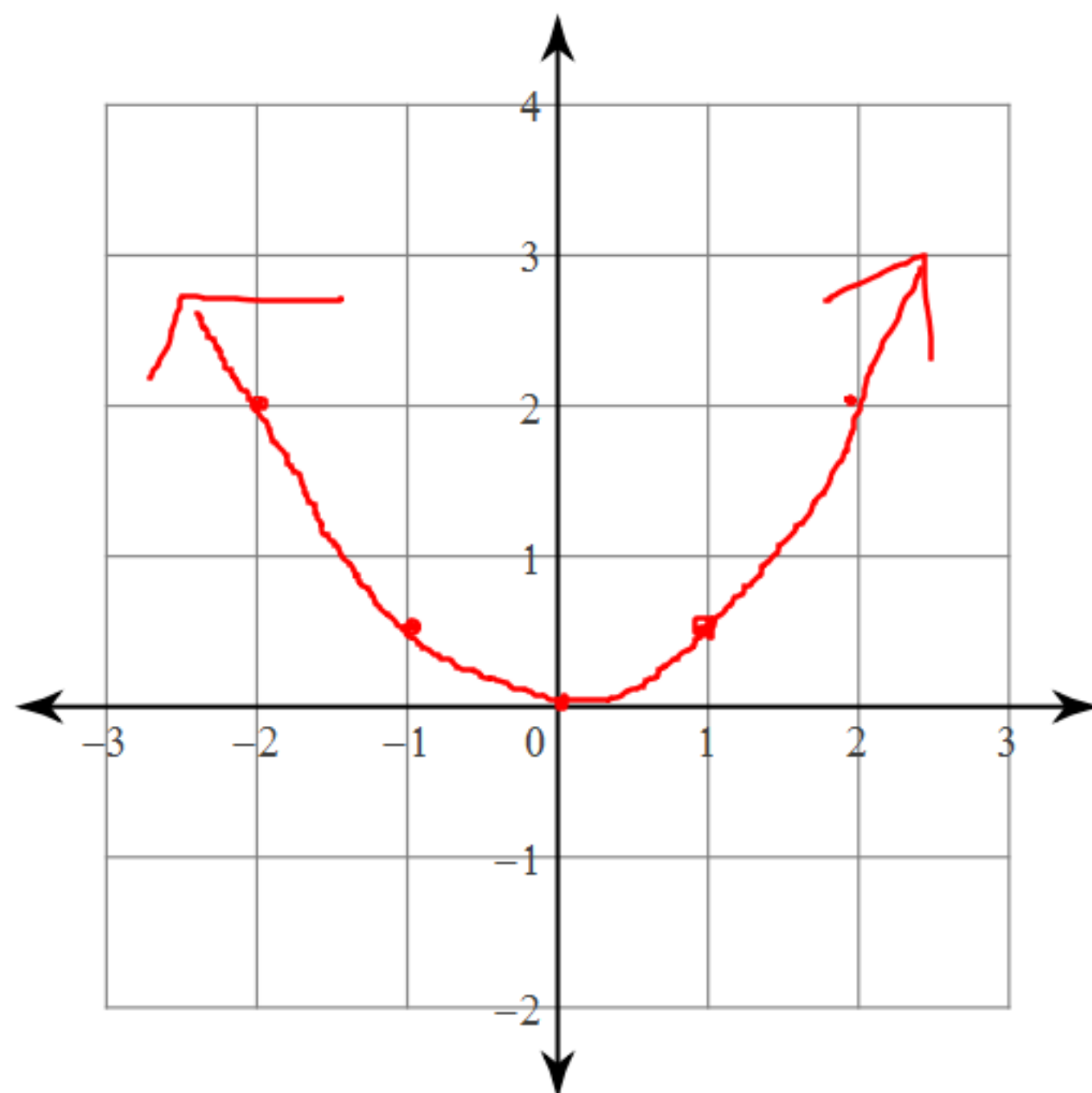
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Jump



1-up

7) $y = \frac{1}{2}x^2$



$$y = \frac{1}{2}x^2$$

x	y
2	2
1	.5
0	0
-1	.5
-2	2

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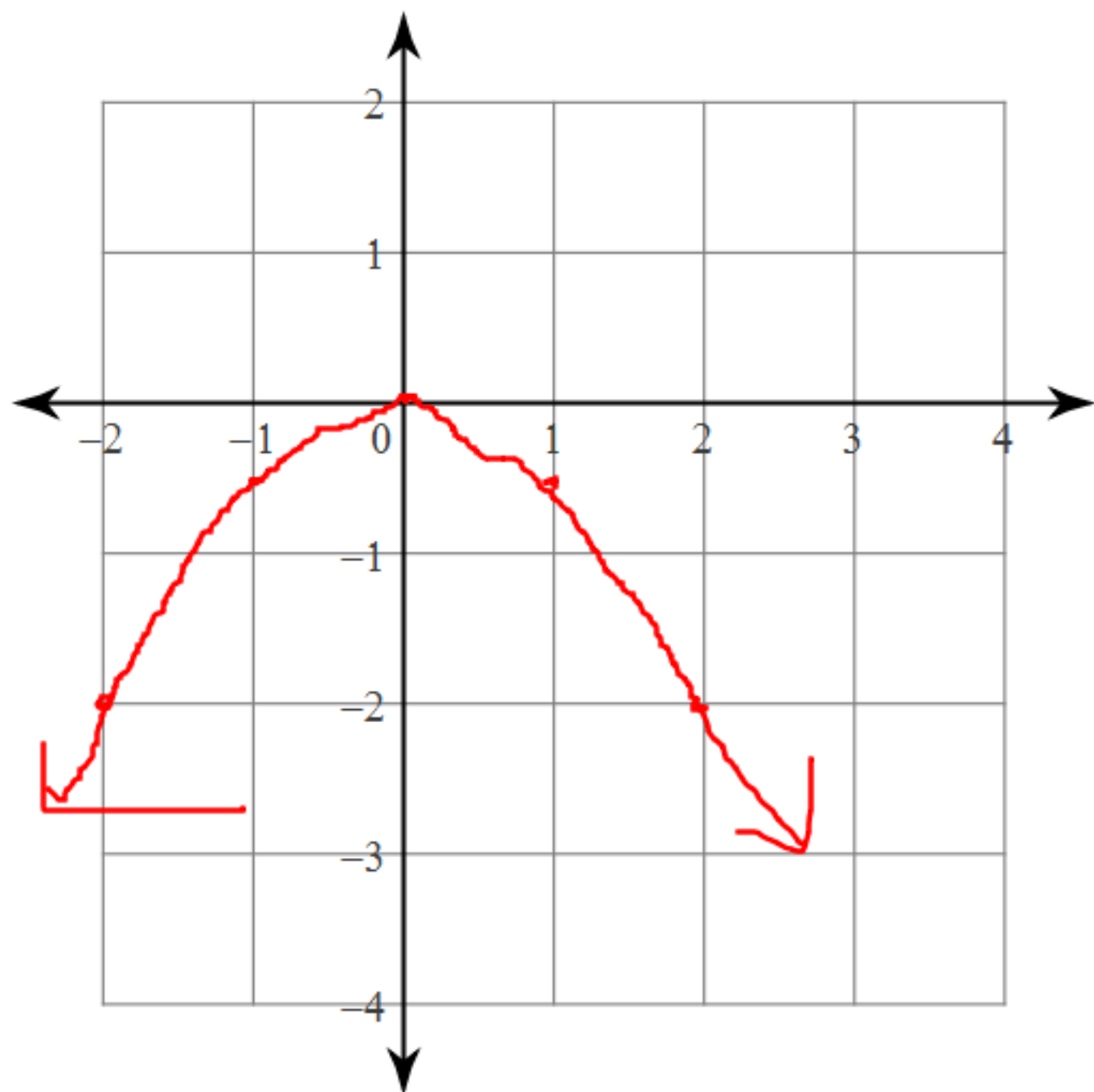
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Jump



1-up

8) $y = -\frac{1}{2}x^2$



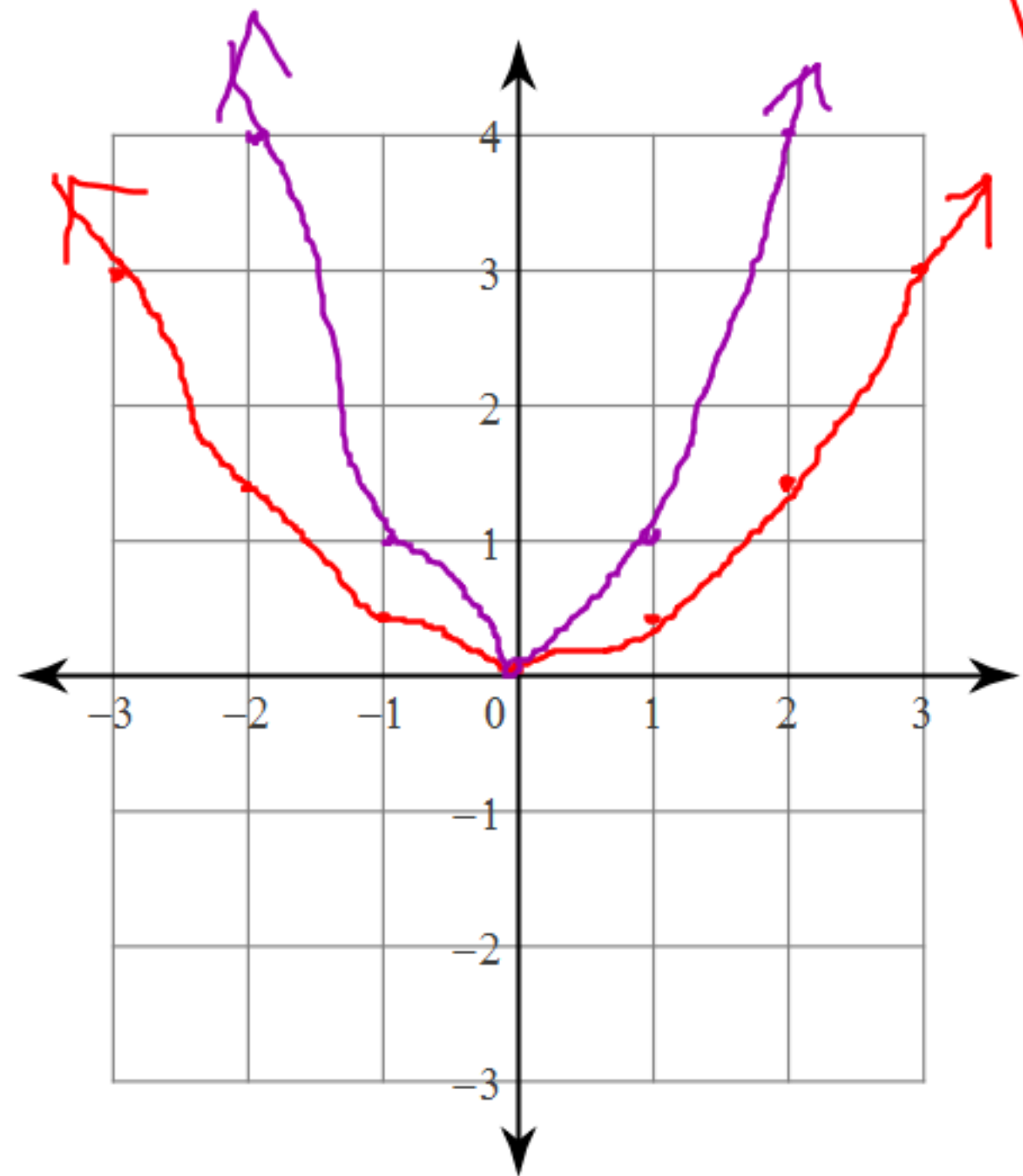
$$y = -\frac{1}{2}x^2$$

x	y
2	-2
1	-0.5
0	0
-1	-0.5
-2	-2

☒ Question numbers
 ☐ Show answers
 ☒ Directions
 ☒ Changing questions hides answers

Zoom:

9) $y = \frac{1}{3}x^2$



$y = \frac{1}{3}x^2$

$y = x^2$

x	y
2	4
-2	4
1	1
-1	1
0	0
2	4

x	y
2	1.3
1	0.3
0	0
-1	0.3
-2	1.3
-3	3