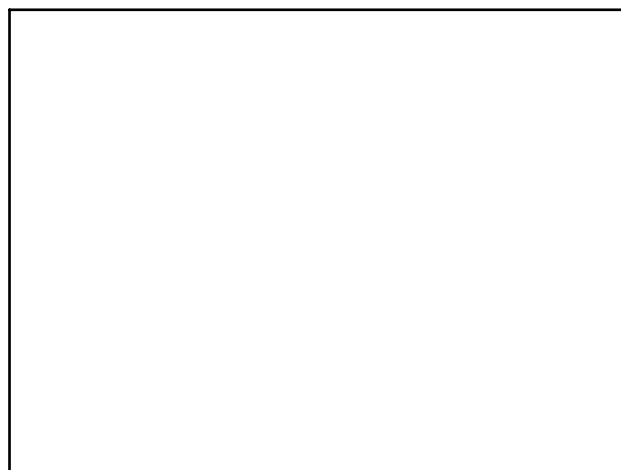


$\curvearrowright \curvearrowleft$ x^2 Quadratic
 1)

x	1	2	3	4	5
y	0	3	8	15	24

 2nd Differences
 Yes
 $-3 \quad -5 \quad -7 \quad -9$
 $2 \quad 2 \quad 2$

Mar 10-7:48 AM



Mar 10-1:13 PM

2) $y + 5 = 2x^2$
 yes \curvearrowright
 $y = 2x^2 - 5$
 Standard form
 Positive \curvearrowright opens up
 $2x^2 + 0x - 5$
 No B Term
 y axis is
 A.O.S
 $x=0$

Mar 10-7:56 AM

1) $y = \frac{1}{2}x^2 + 3$
 $x=0$
 A.O.S
 Vertex $(0, 3)$
 Minimum
 $y=3$
 $D=R$
 $R = y \geq 3$

x	y
0	3
1	$3\frac{1}{2}$
-1	$3\frac{1}{2}$
2	5
-2	5

Mar 10-1:16 PM

3) $y = x^2 - 4$
 A.O.S
 $x=0$
 Vertex $(0, -4)$
 $(x-2)(x+2) = 0$
 $2 \quad -2$

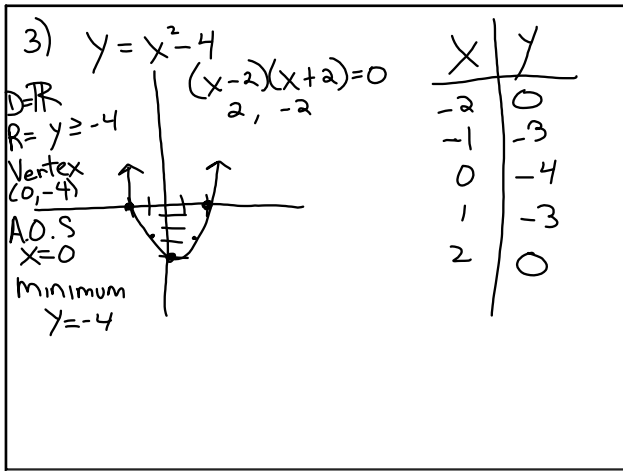
x	y
0	-4
2	0
-2	0
3	5
-3	5

Mar 10-1:20 PM

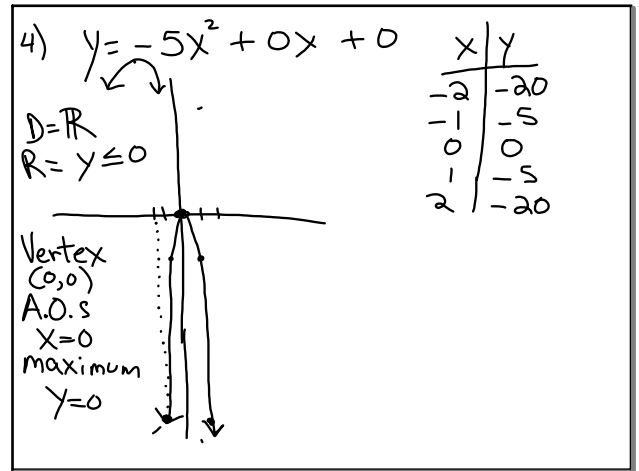
4) $y = -5x^2$

x	y
0	0
1	-5
-1	-5
2	-20
-2	-20

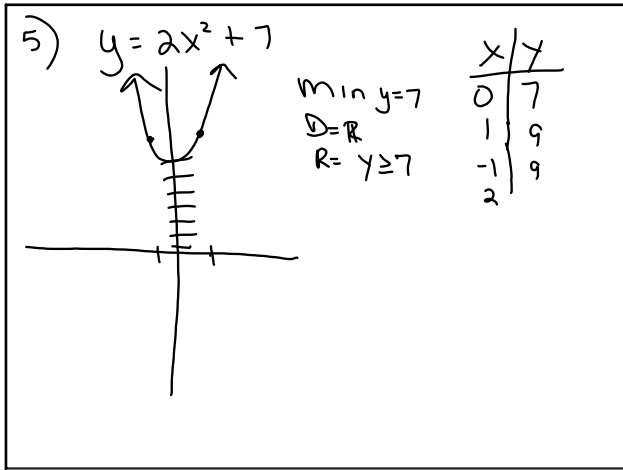
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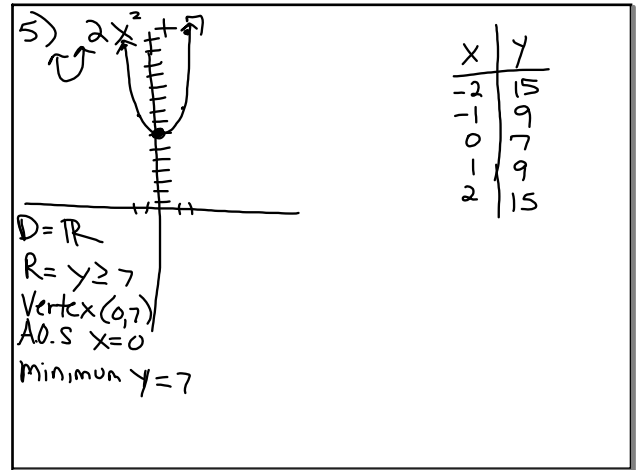
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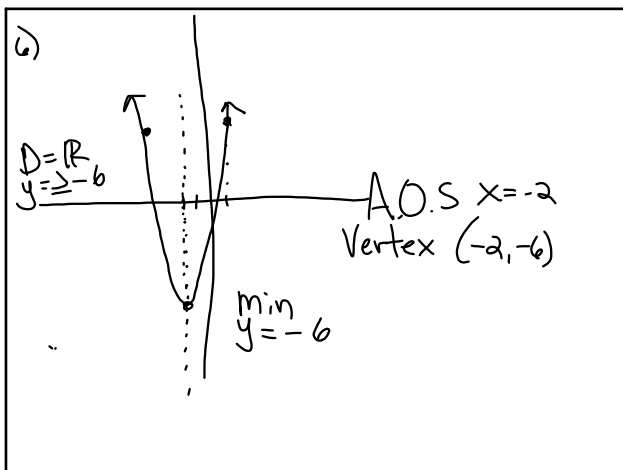
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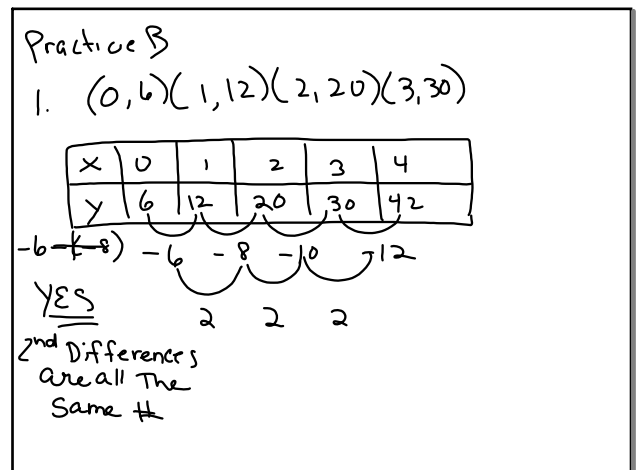
Mar 10-1:28 PM



Mar 10-8:13 AM



Mar 10-8:17 AM



Mar 10-8:19 AM

2) $3x + 2y = 8$

$y = 4$
 $x = \frac{8}{3}$
 $m = -\frac{3}{2}$

~~$2y = -3x + 8$~~
 $y = -\frac{3}{2}x + 4$

Mar 10-1:33 PM

2) $3x + 2y = 8$

Linear Equation
in Standard Form

Not Quadratic

$x = \frac{8}{3}$ $y = 4$
 $m = -\frac{a}{b} = -\frac{3}{2}$

$3x + 2y = 8$
 Solve for y
 ~~$2y = -3x + 8$~~
 $y = -\frac{3}{2}x + 4$

Mar 10-8:22 AM

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

Mar 10-1:40 PM

4) $2x^2 - 3$

A.O.S
 $x = 0$
 Vertex
 $(0, -3)$

Min $y = -3$
 $D = \mathbb{R}$
 $R = y \geq -3$

x	y
1	-1
-1	-1
2	5
-2	5

Mar 10-1:42 PM

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

fat

x	y
0	0
1	$-\frac{1}{2}$
-1	$-\frac{1}{2}$
2	-2
-2	-2
4	-8
-4	-8

Mar 10-8:25 AM

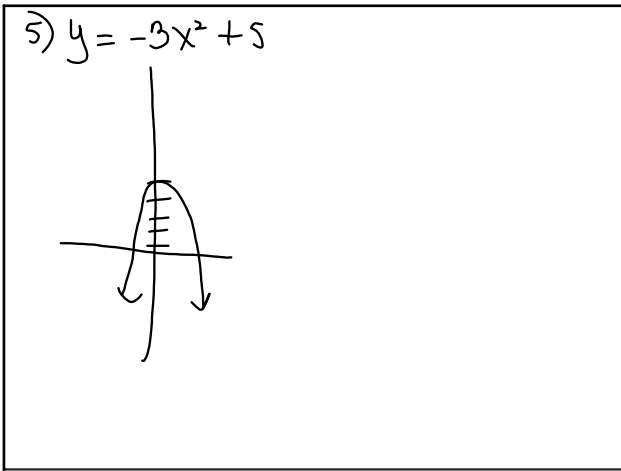
4) $y = 2x^2 - 3$

skinny
 shrink

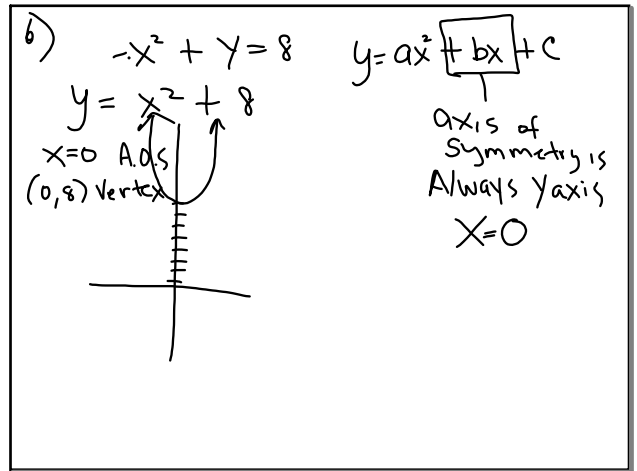
x	y
-2	5
-1	-1
0	-3
1	-1
2	5

Vertex
 $(0, -3)$
 A.O.S $x = 0$
 min $y = -3$
 $D = \mathbb{R}$
 $R = y \geq -3$

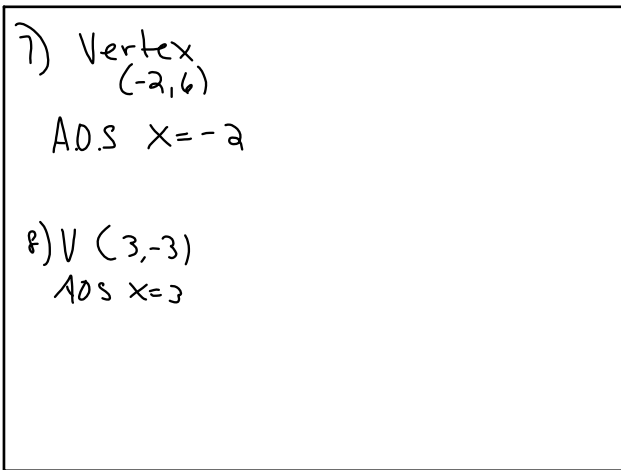
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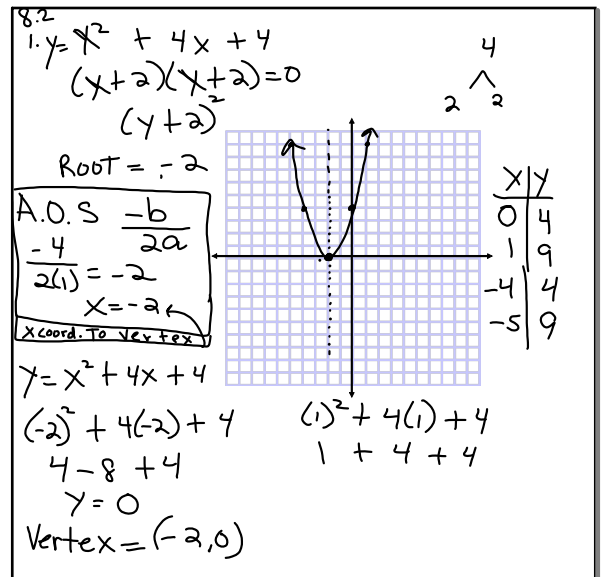
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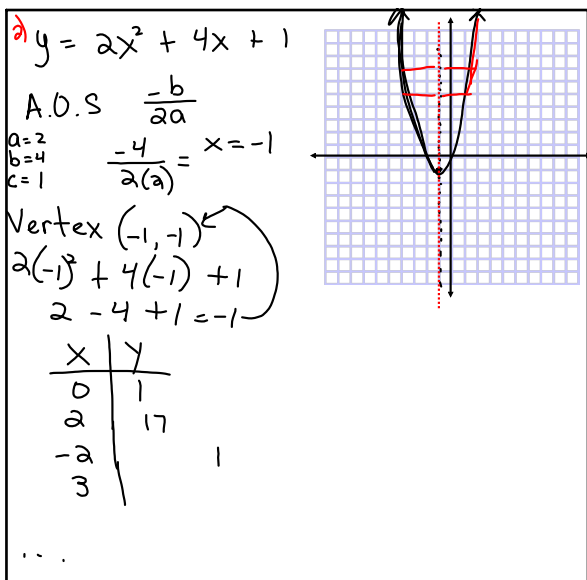
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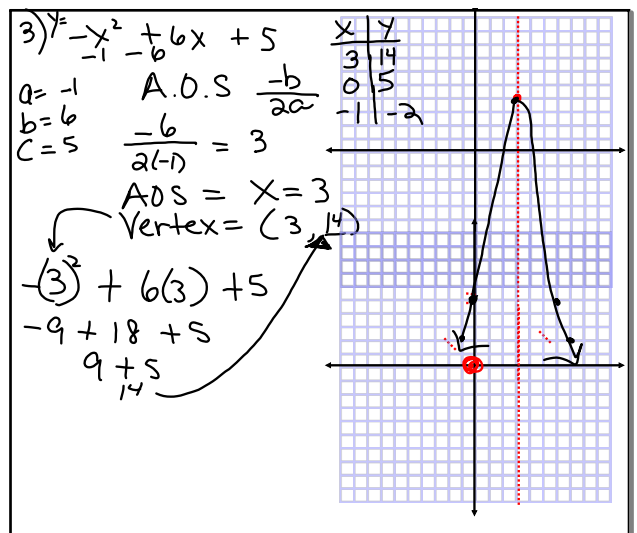
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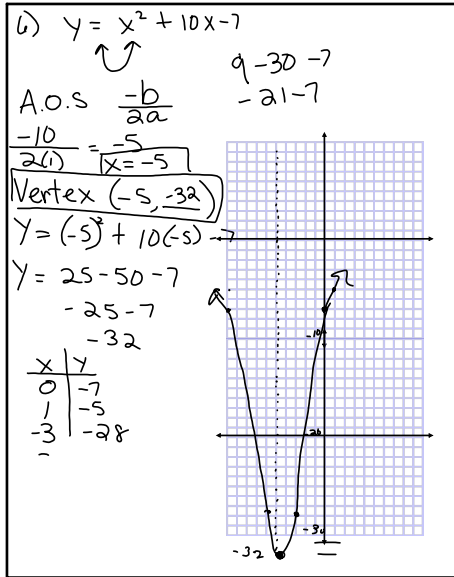
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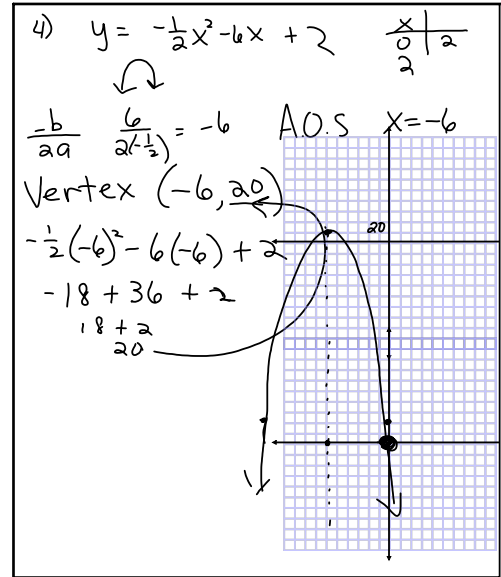
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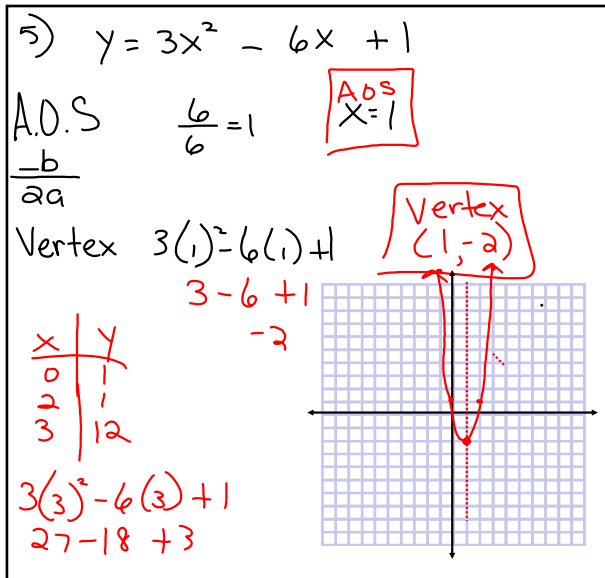
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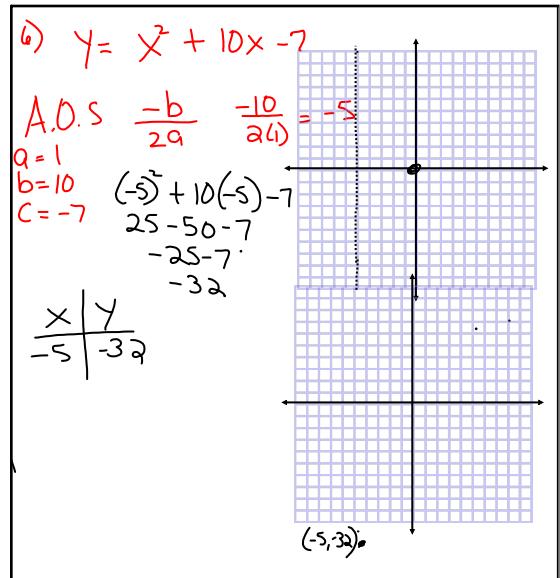
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Mar 10-8:56 AM



Mar 10-1:52 PM



Mar 10-2:21 PM