

① $f(x) = 2x^2 - 11$

② $f(x) = x^2 - 10x + 5$

③ $f(x) = -2x^2 + 8x + 7$

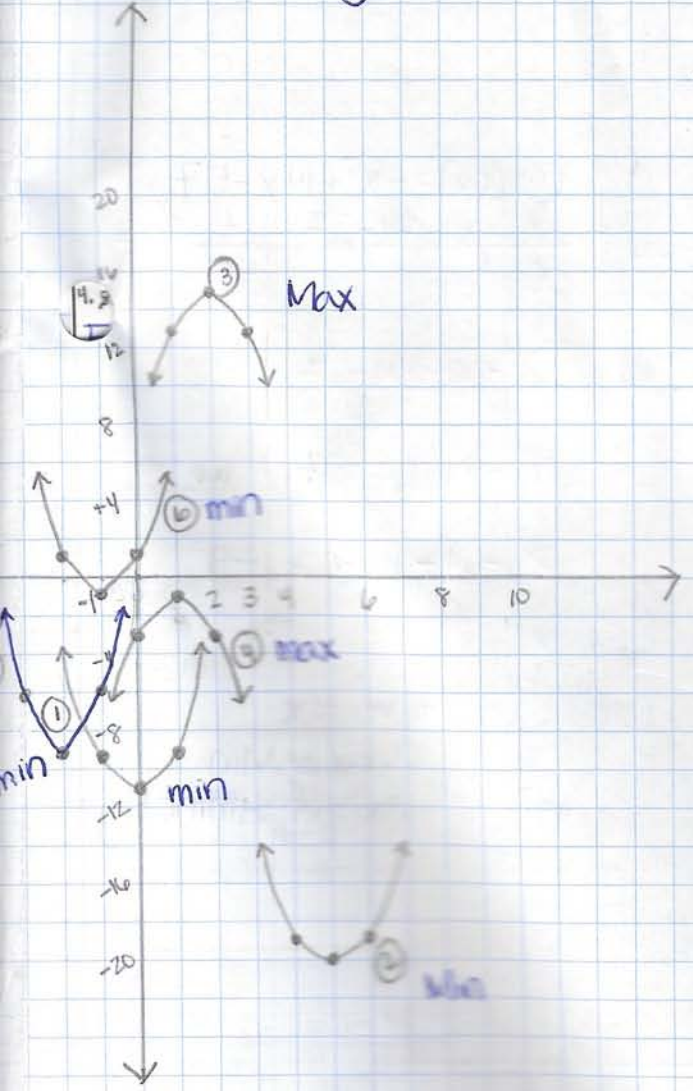
x	$2x^2 - 11$	$f(x)$
-2	8-11	-3
-1	2-11	-9
0		-11
1	2-11	-9
2	8-11	-3

$(-1, -9)$
*

x	$x^2 - 10x + 5$	$f(x)$
-2	4+20+5	29
-1	1+10+5	16
0		5
1	1-10+5	-4
2	4-20+5	-11
3	9-30+5	
4	16-40+5	-19
5	25-50+5	-20 *
6	36-60+5	-19

x	$-2x^2 + 8x + 7$	$f(x)$
-1	-2-8+7	-3
0		7
1	-2+8+7	13
2	-8+16+7	15 *
3	-18+24+7	13

* Vertex
Max or Min
Axis of symmetry



④ $f(x) = -2x^2 + 4x - 3$

⑤ $f(x) = 3x^2 + 12x + 3$

x	$-2x^2 + 4x - 3$	$f(x)$
0		-3
1	-2+4-3	-1 *
2	-8+8-3	-3

x	$3x^2 + 12x + 3$	$f(x)$
-3	27-36+3	-6
-2	12-24+3	-9 *
-1	3-12+3	-6
0		3
1	3+12+3	18
2	12+24+3	39
3		

⑥ $f(x) = 2x^2 + 4x + 1$

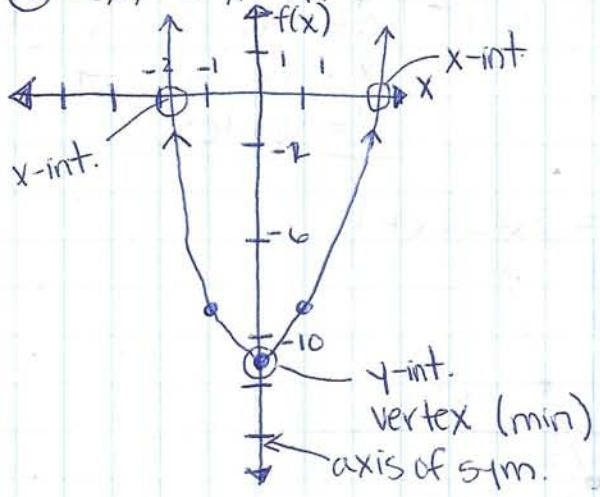
x	$2x^2 + 4x + 1$	$f(x)$
-2	8-8+1	1
-1	2-4+1	-1 *
0		1

← Warm-up Grade

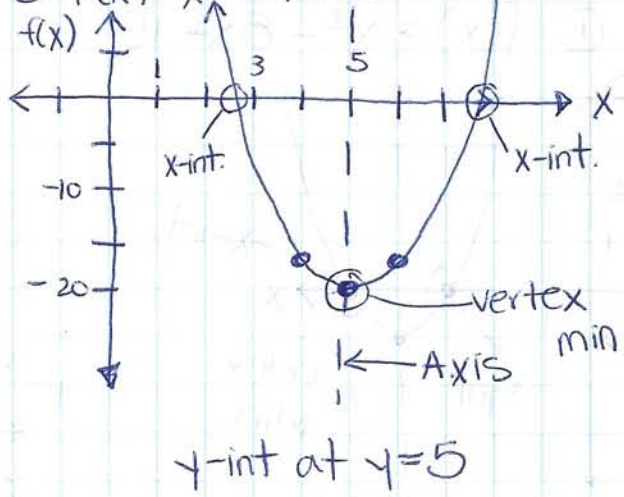
vertex
y-int. & x-int
max/min
axis of symmetry

$-3 \leq x$

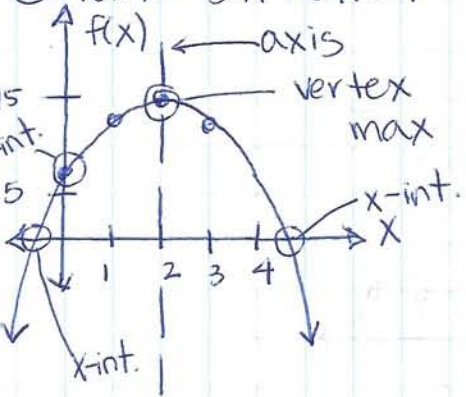
① $f(x) = 2x^2 - 11$



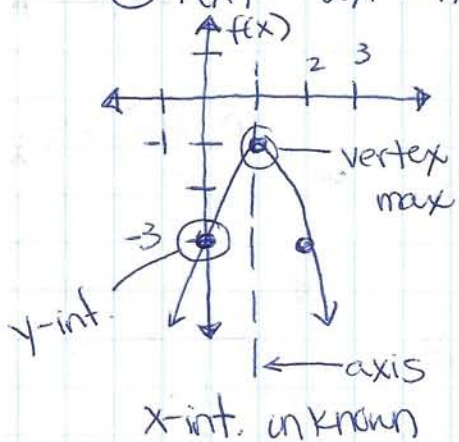
② $f(x) = x^2 - 10x + 5$



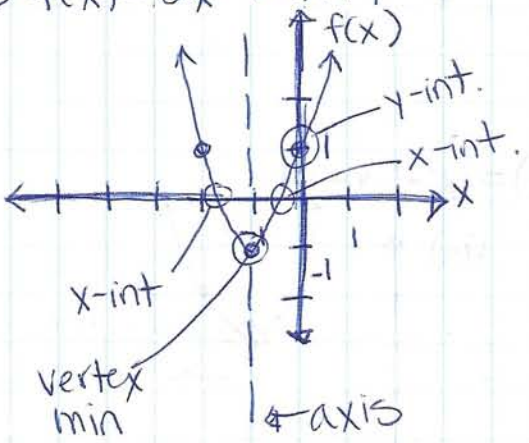
③ $f(x) = -2x^2 + 8x + 7$



④ $f(x) = -2x^2 + 4x - 3$



⑥ $f(x) = 2x^2 + 4x + 1$



⑤ $f(x) = 3x^2 + 12x + 3$

