ex.1) $y = \sqrt{3x+4}$

$3x + 4 \geq 0$

$3x \geq -4$

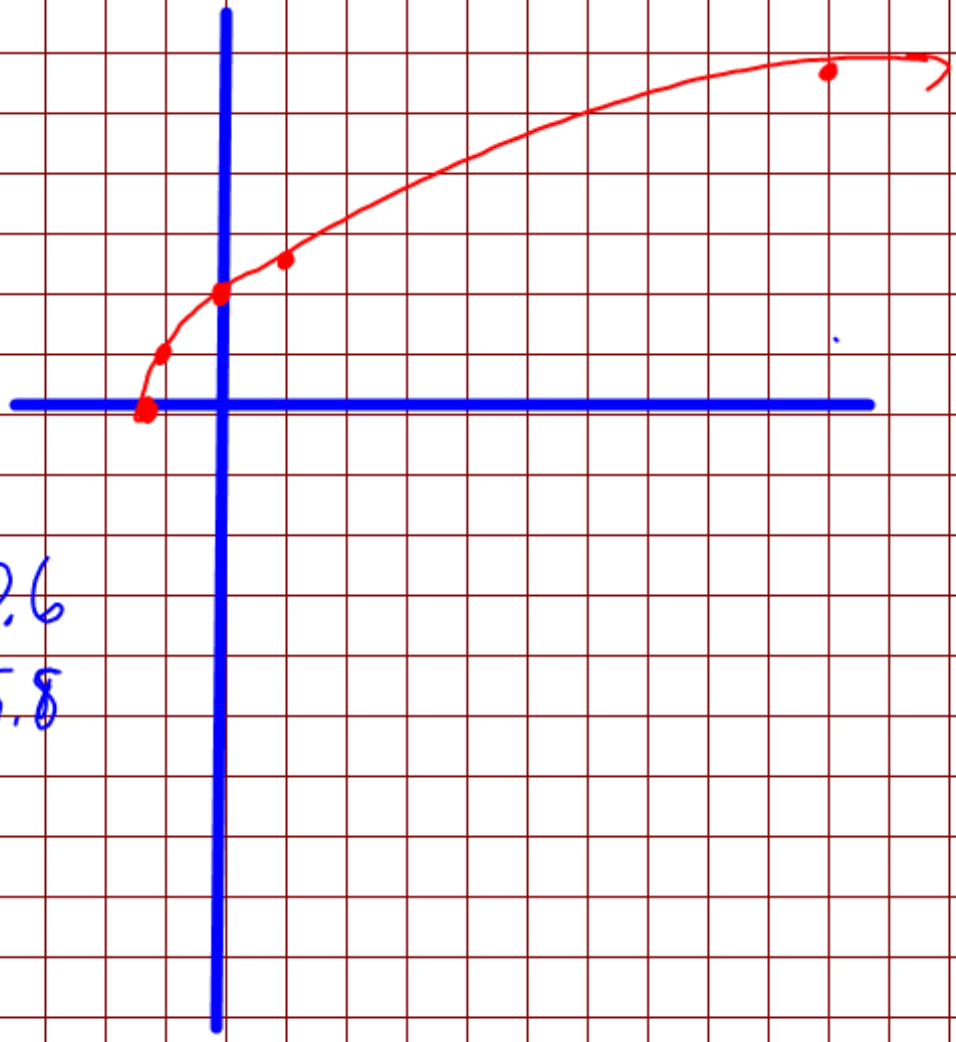
Domain: $x \geq -\frac{4}{3}$

Range: $y \geq 0$

x-int: $-\frac{4}{3}$

y-int: 2

x	y
$-\frac{4}{3}$	0
-1	1
0	2
1	$\sqrt{7} \approx 2.6$
10	$\sqrt{34} \approx 5.8$



$y = -\sqrt{x+4} - 6$

$x + 4 \geq 0$

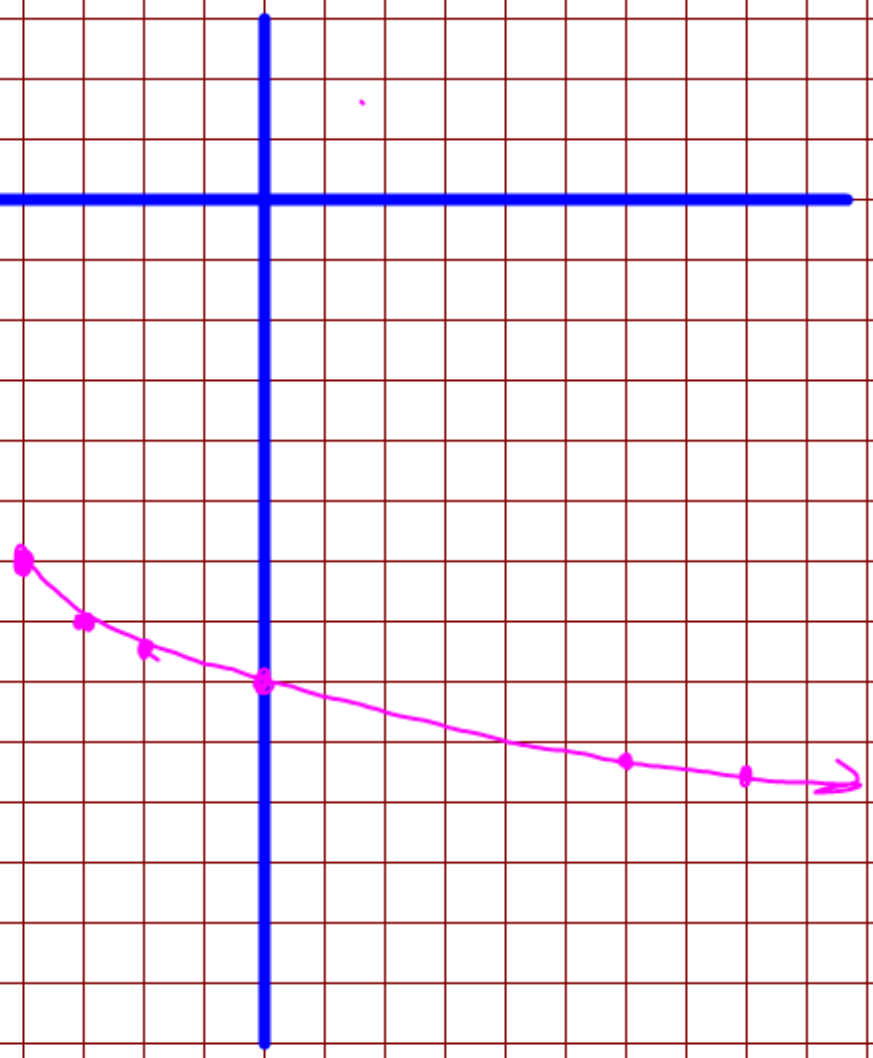
Domain: $x \geq -4$

Range: $y \leq -6$

no x-int

y-int: -8

x	y
-4	-6
-3	-7
-2	≈ -7.4
0	-8
6	≈ -9.2
8	≈ -9.5



$$v = \sqrt{\frac{2k}{m}},$$

$$(6)^2 = \left(\sqrt{\frac{2k}{5}}\right)^2$$

$$\left(\frac{5}{2}\right)36 = \frac{2k}{5}\left(\frac{5}{2}\right)$$

$$90. \text{ joules} = k$$

$y < \sqrt{2x - 6}.$

$2x - 6 \geq 0$

$2x \geq 6$

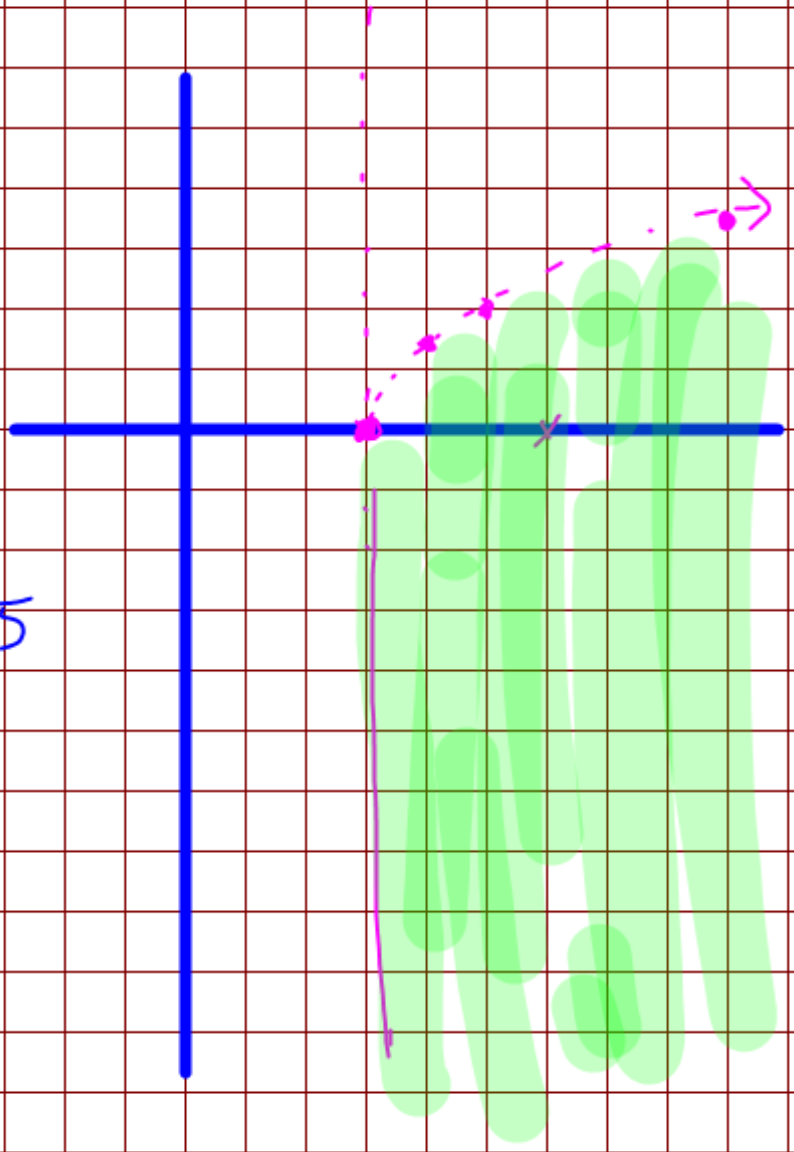
$x \geq 3$

x	y
3	0
4	$\sqrt{2} \approx 1.4$
5	2
9	$\sqrt{12} \approx 3.5$

(6, 0)

$0 < \sqrt{2(6) - 6}$

$0 < \sqrt{6}$



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9-10, 14-16 (pick 2), 18-20 (pick 2), 22, 25-27, 30, 34-35, 43-47