

$$y = \sqrt{3x + 4}$$

$$3x + 4 \geq 0$$

$$3x \geq -4$$

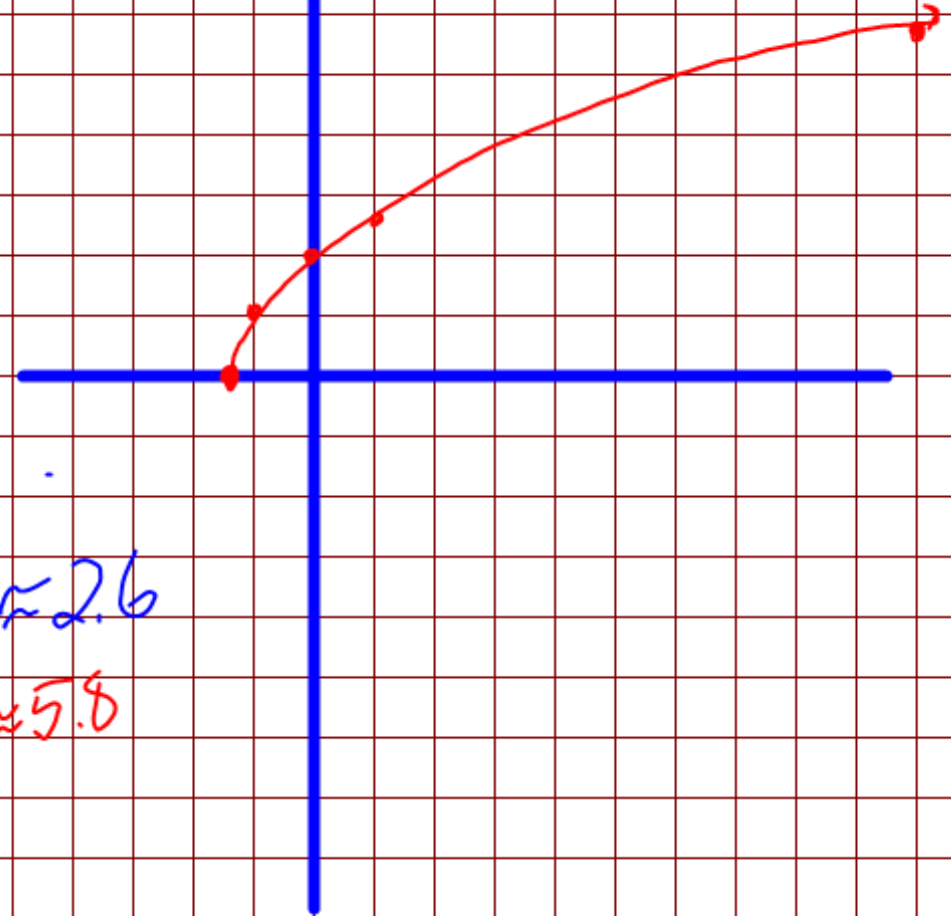
Domain $x \geq -\frac{4}{3}$

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	$\sqrt{34} \approx 5.8$



$$y = -\sqrt{4x+8} - 2$$

$$4x+8 \geq 0$$

$$4x \geq -8$$

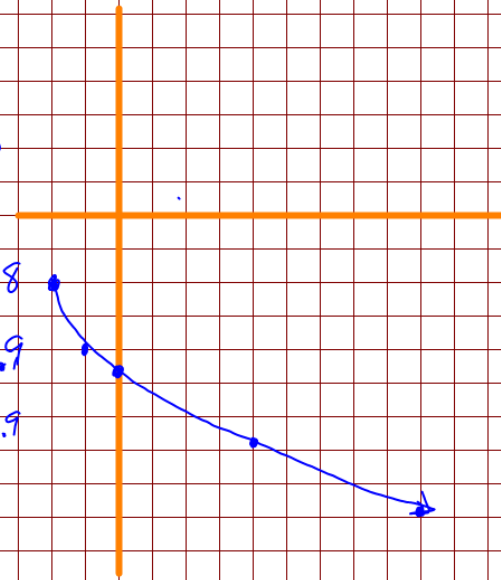
$$\text{Domain: } x \geq -2$$

$$\text{Range } y \leq -2$$

$$y\text{-int: } x = -4.8$$

$$x\text{-int: none}$$

x	y
-2	-2
-1	-4
0	-6.8
4	-8.9



$$d = \sqrt{\frac{3h}{2}}$$

$$(3)^2 = \left(\sqrt{\frac{3h}{2}}\right)^2$$

$$\left(\frac{2}{3}\right) 9 = \frac{3h}{2} \left(\frac{2}{3}\right)$$

$$6 \text{ ft} = h$$

$$(10)^2 = \left(\sqrt{\frac{3h}{2}}\right)^2$$

$$\left(\frac{2}{3}\right) 100 = \frac{3h}{2} \left(\frac{2}{3}\right)$$

$$\frac{200}{3} = h$$

$$66\frac{2}{3} \text{ ft}$$

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

$$2x - 6 \geq 0$$

$$2x \geq 6$$

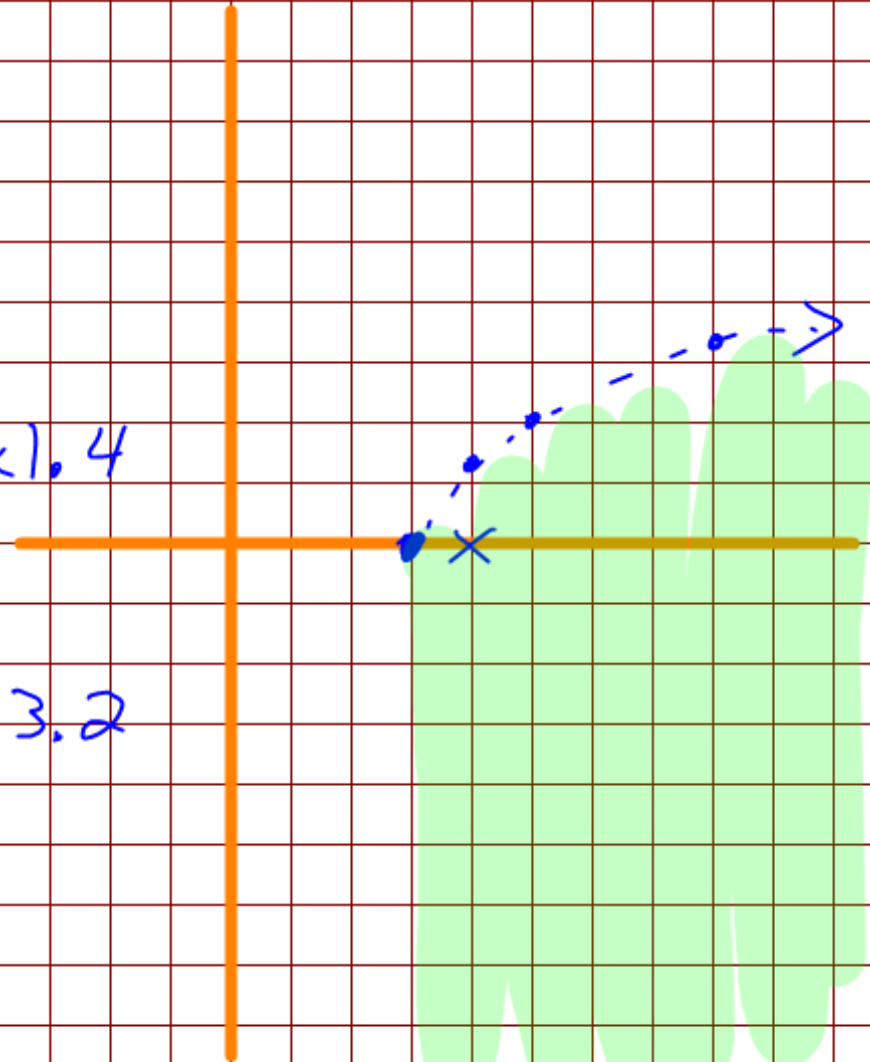
$$x \geq 3$$

(4, 0)

$$0 < \sqrt{2(4) - 6}$$

$$0 < \sqrt{2}$$

X	Y
3	0
4	$\sqrt{2} \approx 1.4$
5	2
8	$\sqrt{10} \approx 3.2$



p. 400-401

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