

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

$$3x + 4 \geq 0$$

$$3x \geq -4$$

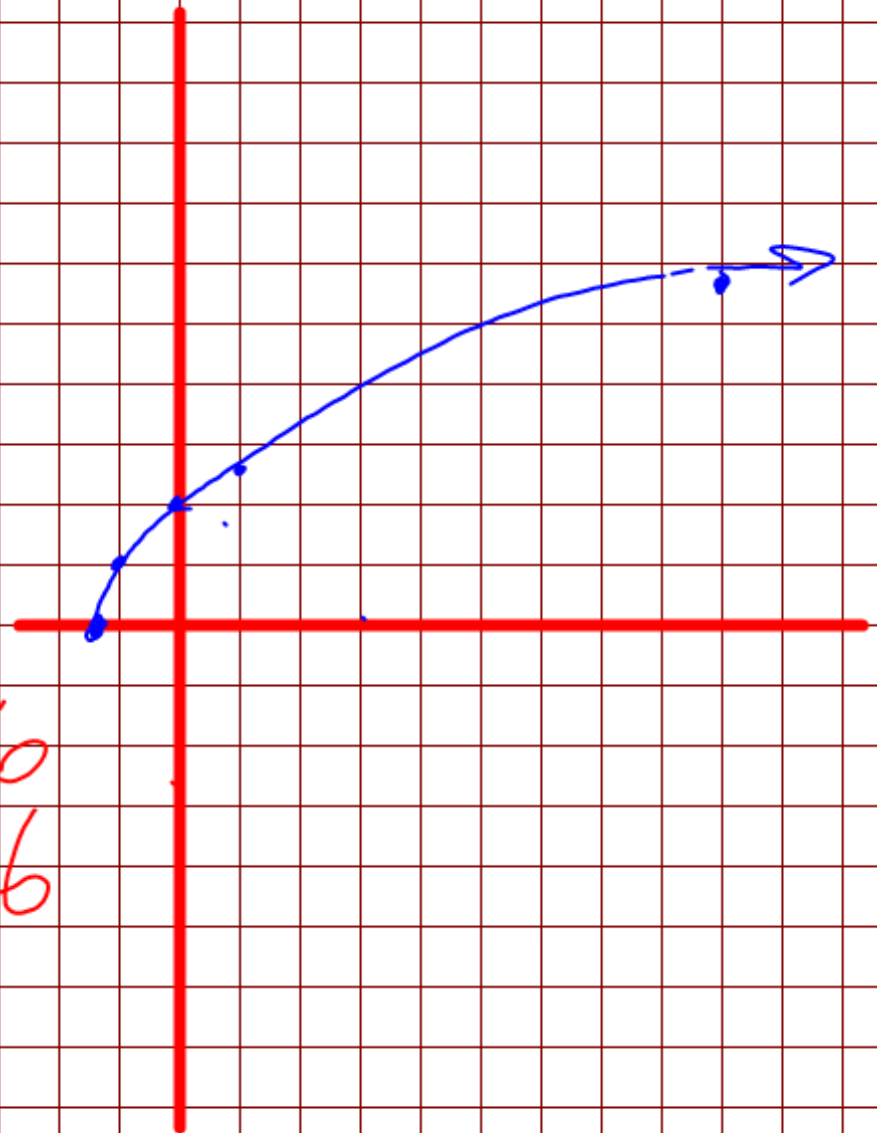
$$\text{Domain } x \geq -\frac{4}{3}$$

$$\text{Range } y \geq 0$$

$$y\text{-int: } 2$$

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

x	y
$-\frac{4}{3}$	0
-1	1
0	2
1	2.6
9	5.6



$$y = -\sqrt{3x+6} - 4$$

$$3x+6 \geq 0$$

$$3x \geq -6$$

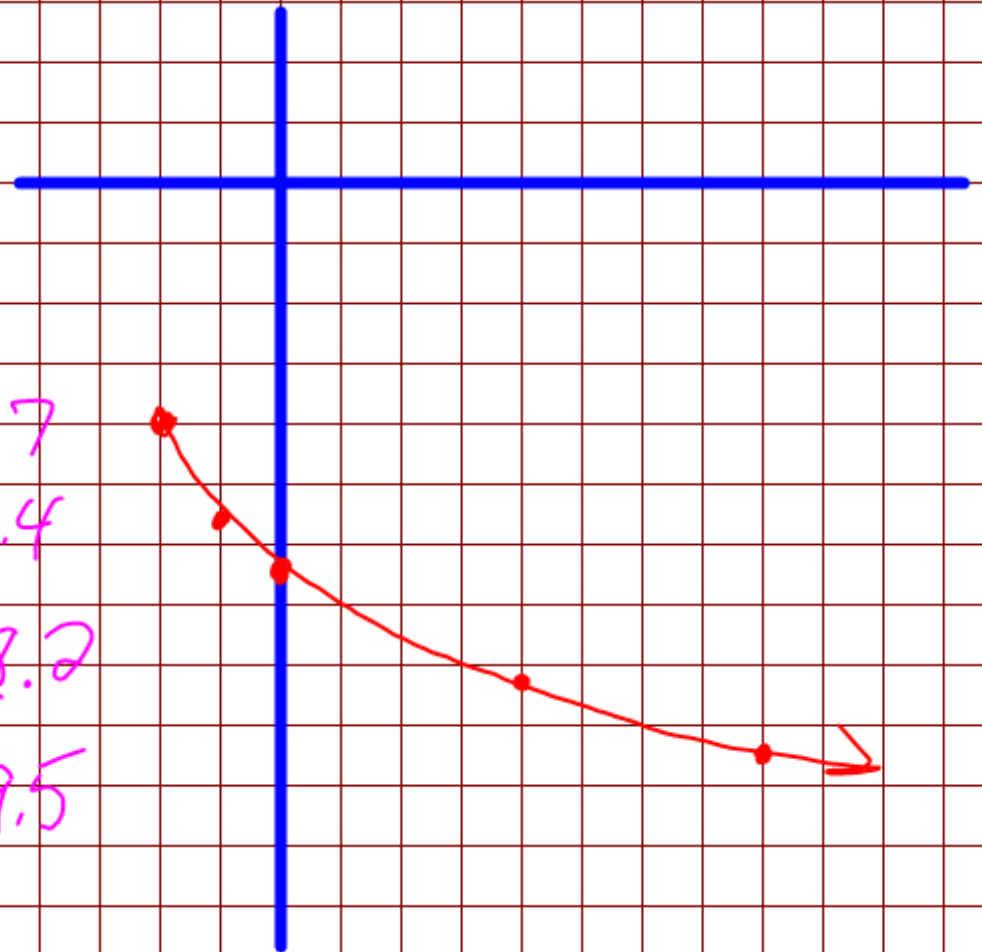
$$\text{Domain: } x \geq -2$$

$$\text{Range: } y \leq -4$$

$$y\text{-int: } \approx -6.4$$

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

x	y
-2	-4
-1	≈ -5.7
0	≈ -6.4
4	≈ -8.2
8	≈ -9.5



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

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

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

$$6f = h$$

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

$$2x - 6 \geq 0$$

$$2x \geq 6$$

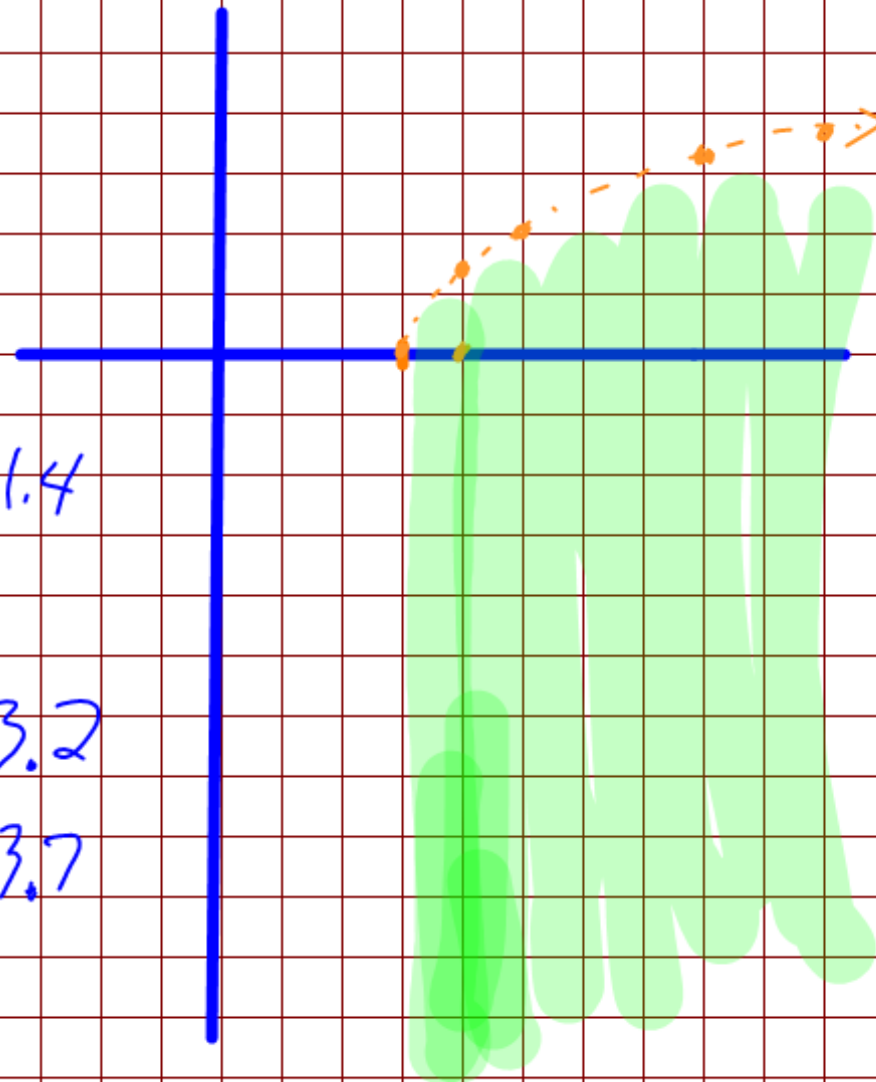
$$x \geq 3$$

(4, 0)

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

$$0 < \sqrt{2}$$

x	y
3	0
4	$\sqrt{2} \approx 1.4$
5	2
8	$\sqrt{10} \approx 3.2$
10	$\sqrt{14} \approx 3.7$



p. 400-401

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