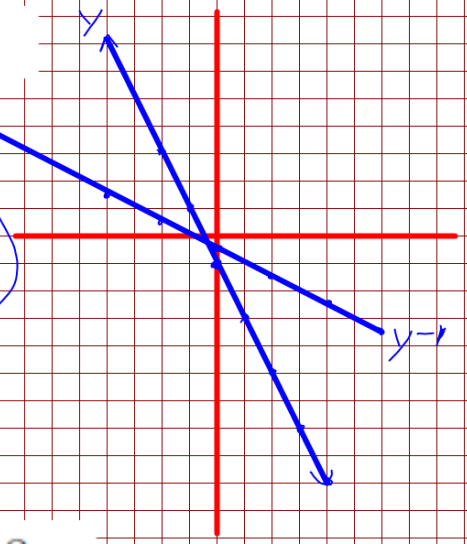
21. $y = -2x - 1$

$x = -2y - 1$

$x + 1 = -2y$

$\frac{x+1}{-2} = y$

$-\frac{1}{2}x - \frac{1}{2} = y$



33. $g(x) = 2x + 8$

$f(x) = \frac{1}{2}x - 4$

$[g \circ f](x) = g(\frac{1}{2}x - 4) = 2(\frac{1}{2}x - 4) + 8$

$= x - 8 + 8$

$= x$

$[f \circ g](x) = f(2x+8) = \frac{1}{2}(2x+8) - 4$

$= x + 4 - 4$

$= x$

Yes

$y = \frac{2(x-12)+10}{4} = \frac{2x-24+10}{4}$

$= \frac{2x-14}{4}$

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

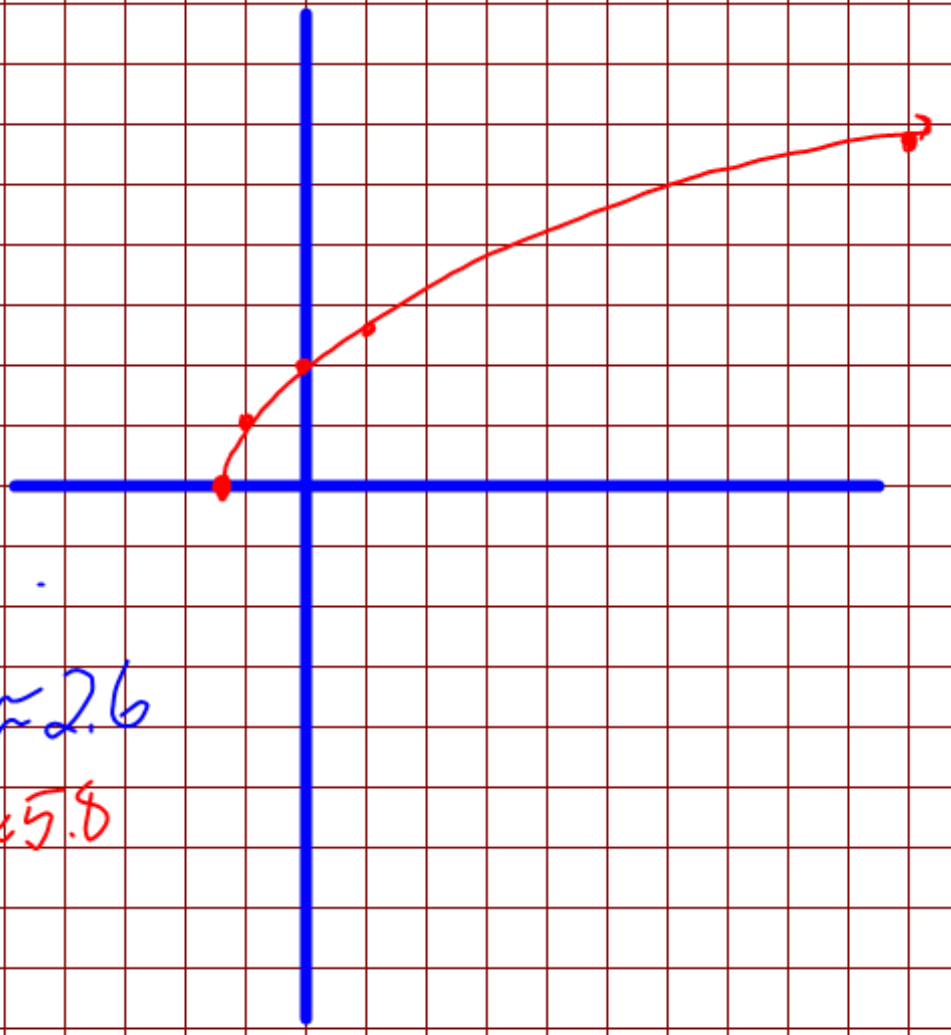
$3x + 4 \geq 0$

$3x \geq -4$

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

Range: $y \geq 0$

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



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

y-int: 2