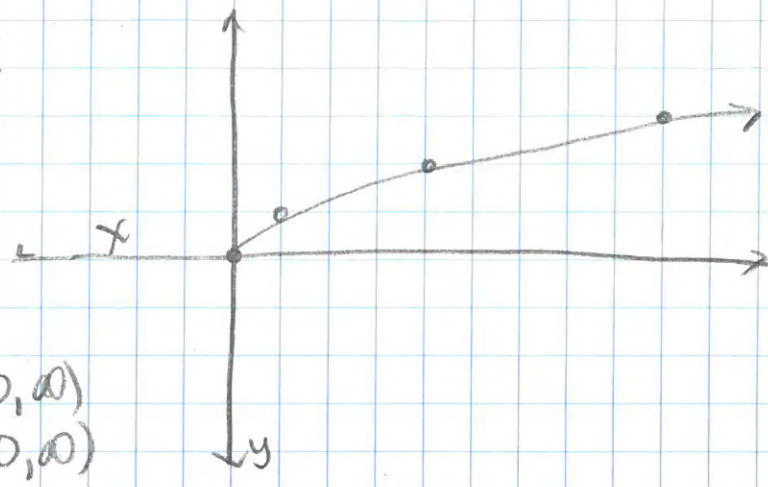


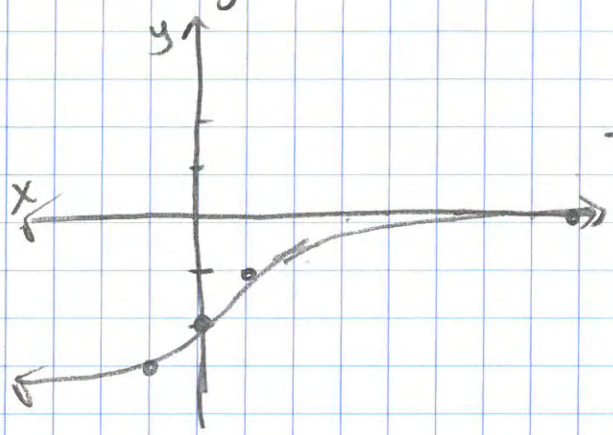
51. $y = \sqrt{x}$

| x | y |
|---|---|
| 0 | 0 |
| 1 | 1 |
| 4 | 2 |
| 9 | 3 |



D: $[0, \infty)$
R: $[0, \infty)$

52. $y = \sqrt[3]{x} - 2$

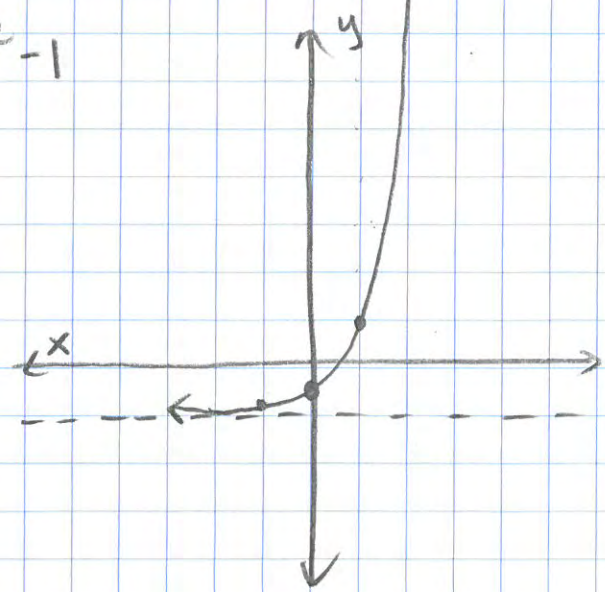


| x | y |
|----|----|
| 0 | -2 |
| 1 | -1 |
| -1 | -3 |
| 8 | 0 |

D: $(-\infty, \infty)$
R: $(-\infty, \infty)$

53. $y = \frac{1}{3}(6)^x - 1$

| x | y |
|----|--------|
| -1 | -17/18 |
| 0 | -2/3 |
| 1 | 1 |
| 2 | 11 |

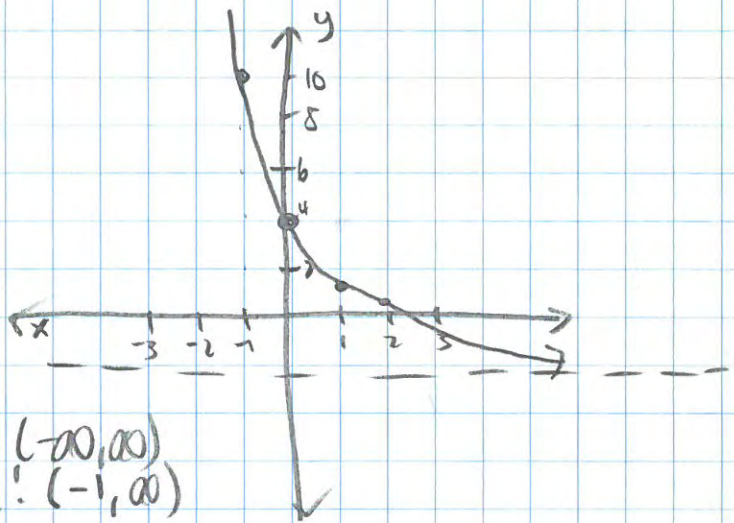


D: $(-\infty, \infty)$
R: $(-1, \infty)$

$y = -1$
asympt.

$$54) y = 5\left(\frac{1}{2}\right)^x - 1$$

| x | y |
|----|---------------|
| -1 | 9 |
| 0 | 4 |
| 1 | 1.5 |
| 2 | $\frac{1}{4}$ |
| 3 | -1.375 |

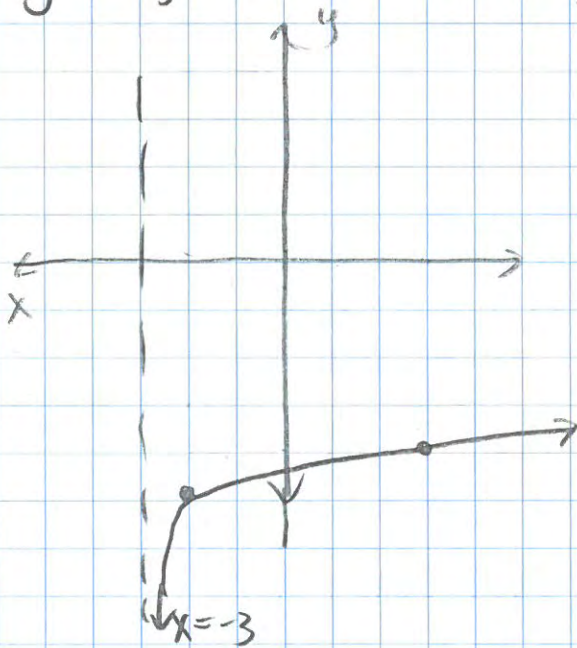


$$D: (-\infty, \infty)$$

$$R: (-1, \infty)$$

$$55) y = \log_6(x+3) - 5$$

left 3 down 5



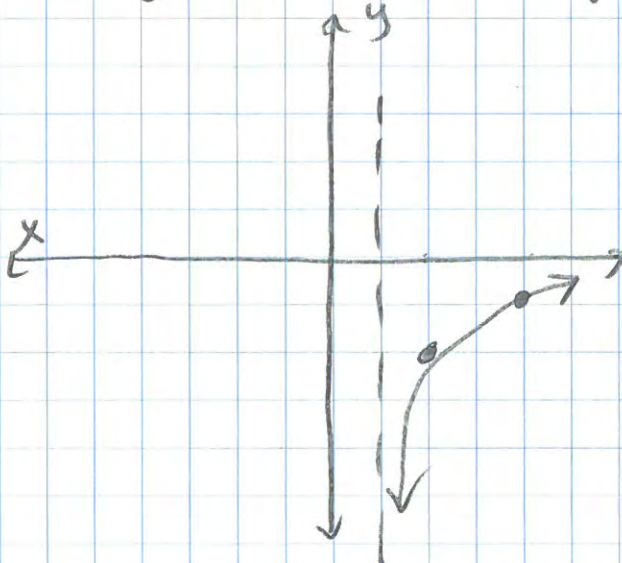
| x | y |
|----|----|
| -2 | -5 |
| -3 | -4 |

$$D: (-3, \infty)$$

$$R: (-\infty, \infty)$$

$$56) y = \log_3(x-1) - 2$$

right 1 down 2



| x | y |
|---|----|
| 2 | -2 |
| 4 | -1 |

$$D: (1, \infty)$$

$$R: (-\infty, \infty)$$