

Name: Key

Algebra 1 Graphing Summary

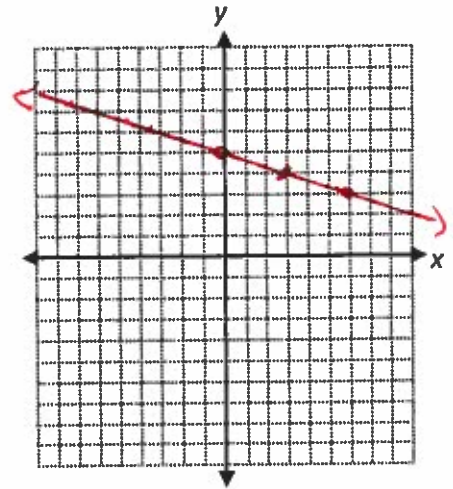
First, identify the type of function. Then, graph each function. State the domain and range.

1) $y = -\frac{1}{3}x + 5$

Type: linear

Domain: $\mathbb{R}$

Range: $\mathbb{R}$

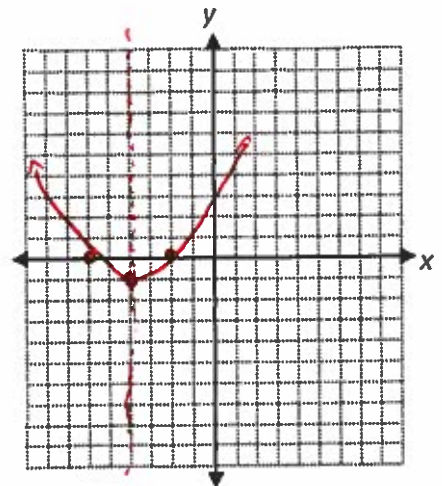


2) $g(x) = \frac{1}{2}(x+4)^2 - 1$

Type: Quadratic

Domain: $\mathbb{R}$

Range: $y \geq -1$

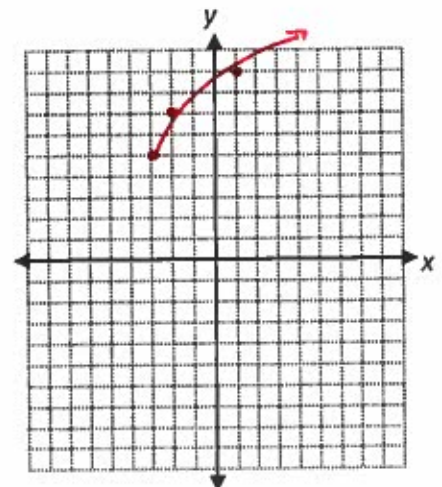


3) $y = 2\sqrt{x+3} + 5$

Type: Radical

Domain: $x \geq -3$

Range: $y \geq 5$

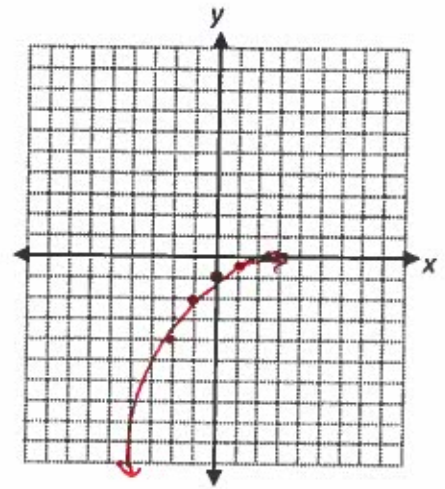


4) $h(x) = -\left(\frac{1}{2}\right)^x$

Type: Exponential

Domain: $\mathbb{R}$

Range: $y < 0$

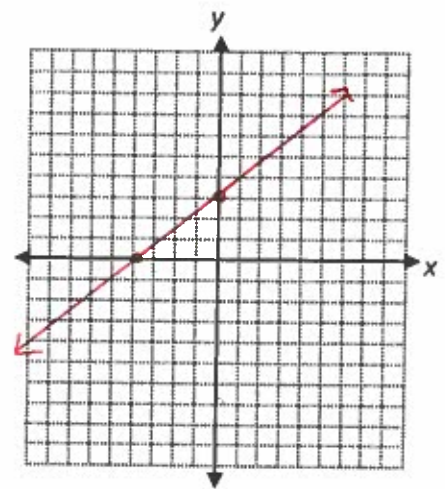


5) $-4x + 5y = 15$

Type: Linear

Domain: $\mathbb{R}$

Range: $\mathbb{R}$

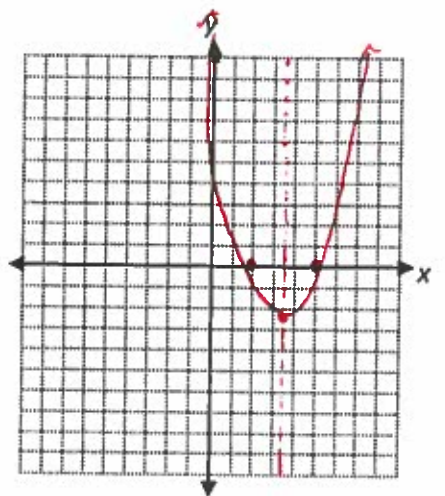


6) $y = x^2 - 7x + 10$ ($x-5$)($x-2$)

Type: Quadratic

Domain: $\mathbb{R}$

Range: $y \geq -2.25$

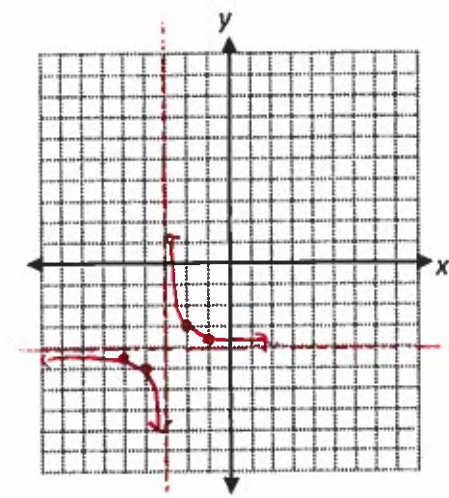


10) $p(x) = \frac{1}{x+3} - 4$

Type: Rational

Domain: $x \neq -3$

Range: $y \neq -4$

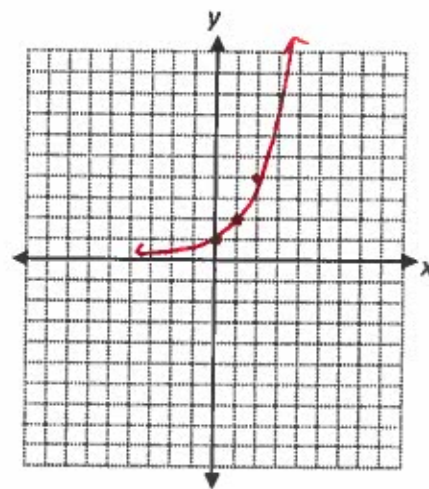


7) $f(x) = 2^x$

Type: Exponential

Domain: $\mathbb{R}$

Range: $y > 0$

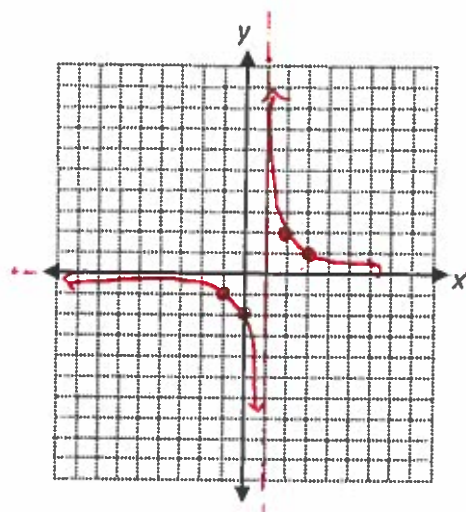


8) $y = \frac{2}{x-1}$

Type: Rational

Domain: $x \neq 1$

Range: $y \neq 0$



9) $w(x) = -\sqrt{x} - 2$

Type: Radical

Domain: $x \geq 0$

Range: $y \leq -2$

