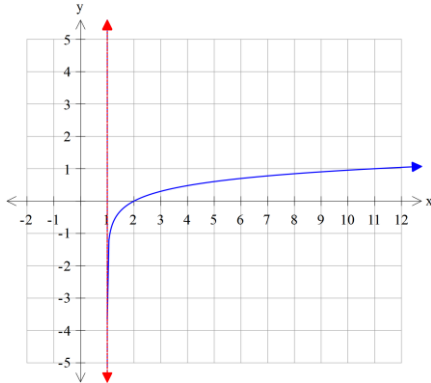


Answers to Classwork– Logarithmic Functions

1. $\log_3\left(\frac{1}{9}\right) = -2$	2. $\log_{36}(6) = \frac{1}{2}$
3. $\log_e(P) = t$ or $\ln(P) = t$	4. $10^{-1} = \frac{1}{10}$
5. $e^0 = 1$	6. $3^N = t$

7.



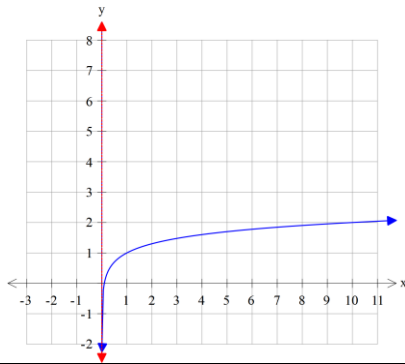
New anchor pts: $(2, 0), (11, 1)$

Domain: $(1, \infty)$

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

Asymptote: $x = 1$

8.



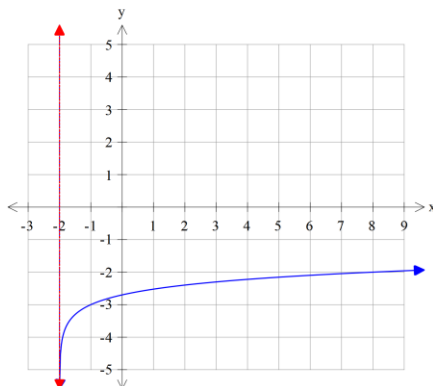
New anchor pts: $(1, 1), (10, 2)$

Domain: $(0, \infty)$

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

Asymptote: $x = 0$

9.



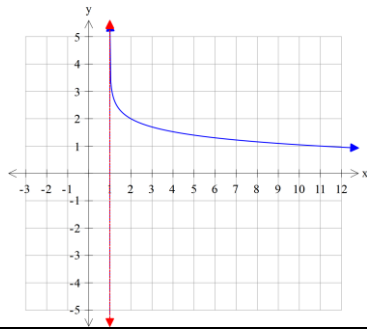
New anchor pts: $(-1, -3), (8, -2)$

Domain: $(-2, \infty)$

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

Asymptote: $x = -2$

10.



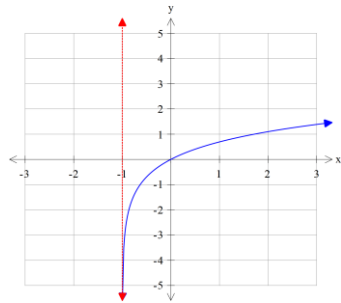
New anchor pts: $(2, 2), (11, 1)$

Domain: $(1, \infty)$

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

Asymptote: $x = 1$

11.



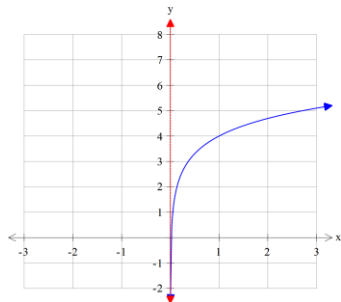
New anchor pts: $(0, 0), (1.7, 1)$

Domain: $(-1, \infty)$

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

Asymptote: $x = -1$

12.



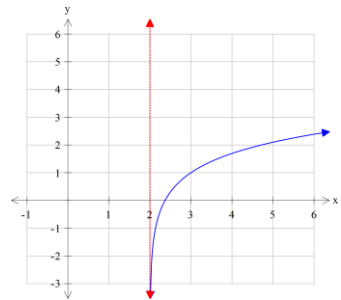
New anchor pts: $(1, 4), (2.7, 5)$

Domain: $(0, \infty)$

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

Asymptote: $x = 0$

13.



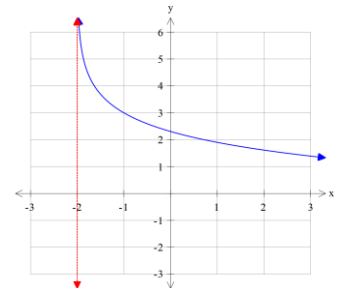
New anchor pts: $(3, 1), (4.7, 2)$

Domain: $(2, \infty)$

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

Asymptote: $x = 2$

14.



New anchor pts: $(-1, 3), (0.7, 2)$

Domain: $(-2, \infty)$

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

Asymptote: $x = -2$