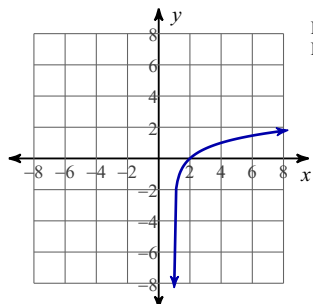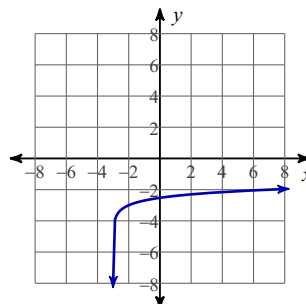# Answers to Worksheet 17 - Lesson 49 & 50

1)

Domain: $x > 1$
Range: All reals

2)

Domain: $x > -3$
Range: All reals

3) No solution.

4) $\left\{ \dfrac{3}{2}, -\dfrac{3}{2} \right\}$

5) $\left\{ \dfrac{-3 - e^5}{1 - e^5} \right\}$

6) $\left\{ -\dfrac{5}{12} \right\}$

7) $\log_5 \dfrac{z^2 x^2}{y^{10}}$

8) $\log_3 \left(c b^5 a^4 \right)$

9) $\left\{ \dfrac{\pi}{4}, \dfrac{7\pi}{4} \right\}$

10) $\{0, \pi\}$

11) $\left\{ \dfrac{5\pi}{6}, \dfrac{11\pi}{6} \right\}$

12) No solution.

13) $\left\{ \dfrac{\pi}{2} \right\}$

14) $\left\{ \dfrac{3\pi}{4}, \dfrac{7\pi}{4} \right\}$