

LAWS OF LOGS WORKSHEET ANSWERS

1. 8

2. 3.5

3. a. 81 b. 8 c. 0.25 d. 6 e. 100 000

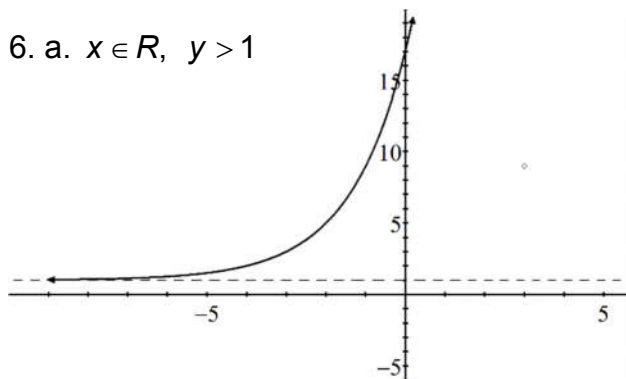
f. 5 g. 9 h. $\frac{1}{3}$ i. $\sqrt{\frac{1}{8}}$

j. $\frac{1}{2}$ k. 9

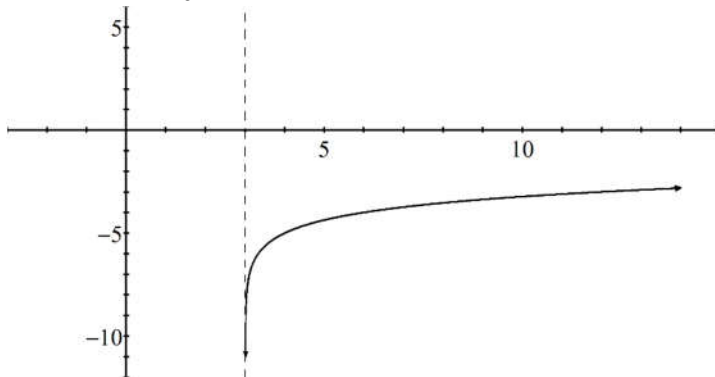
4. a. 1 b. -1 c. 2 d. 2M

5. $\frac{\log 8 + \log 5}{\log 5 - \log 2} \approx 4.026$

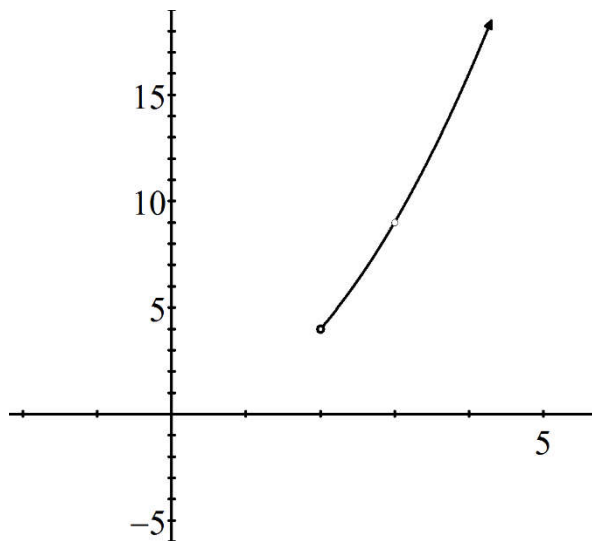
6. a. $x \in \mathbb{R}, y > 1$



b. $x > 3, y \in \mathbb{R}$



7. $y = x^2$, restrictions: $y > 0, x > 2, x \neq 3$



8. 11

9. 15

10. $\frac{7}{2}x + 3$