

Logarithm Questions

1. Solve the equations:

a) $\log|x| = -4$

b) $\log_x 9 = \frac{2}{3}$

c) $\log_3(x-2) = 5$

d) $\log(\log_2(x)) = -1$

2. Find the inverse of $f(x) = 2^{x+1}$.

3. Determine the y-intercept of the graph $y = -2\log_2(x+4) - 1$

4. Find the inverse of $f(x) = \log 5x$.

5. Write an equation of the vertical asymptote of $y = \log_a(x+h)$.