

Practice Test Quiz 4

1. If $f(x) = \log_2(x^2 - 5x + 4)$,

Find domain of $f(x)$

2. Consider $g(x) = 3^{x-2} - 4$. Without the help of an electronic device. Identify an interval of two consecutive integers where the x-intercept of $g(x)$ falls in.

3. Graph $g(x)$ from question 2, identify the x, y intercepts as well as the horizontal asymptote

4. Consider $h(x) = \log_{\sqrt{2}}(x - 3)$, Graph $h(x)$ on the coordinate plan provided and find x and y intercepts of $h(x)$

5. Find the inverse function of $h(x)$ algebraically from question 4. Graph $h^{-1}(x)$ on the same coordinate plane with $h(x)$ and identify its x and y intercepts

6. Evaluate $\log_6 2 + \log_6 3$

