

Practice Quiz 1 (L1-L2)

Show work and have the right answer for full credit. Wrong answer with some right work is worth partial credit, and right answer with wrong work is worth partial credit.

1. What is the domain of the function $f(x) = \frac{1}{\sqrt{x-2}}$? Be specific, and express your answer using interval notation.
2. What are two values in the range of $f(x) = \frac{1}{x^2+1}$? What is the range of the function $f(x) = \frac{1}{x^2+1}$? Express your answer in interval notation.
3. Is the function $f(x) = |x|$ even, odd, or neither? Is the function $g(x) = x^3 + 1$ even, odd, or neither? Show your work or otherwise justify your answer for full credit.
4. Let $f(x) = \sqrt{x}$ and $g(x) = \frac{1}{x-2}$. What is the domain and range of $g \circ f$?