

Quiz 1

Name: _____

1. A real-estate firm owns the upscale Parkvale Avenue Apartments, which consist of 100 apartments. At \$700 per month, every apartment can be rented out. However, for each \$50 per month increase in rent, there will be 2 new vacancies with no possibility of filling them. The firm wants to receive exactly \$102,000 per month from rent. What rent should be charged for each apartment?

2. Find the domain of each function.

(a) $f(x) = \frac{x + 1}{x^2 - 3x + 2}$

(b) $g(x) = \sqrt{3x - 2}$