

Math 22 Section 9

Practice Quiz 4

1. The gravitational force between two objects is proportional to the mass m_1, m_2 of each object and inversely proportional to the square of the distance r between them.
 - (a) (2 points) Write an equation to express this variation.

 - (b) (2 points) Find the constant of proportionality if two objects of mass 1kg and 2kg, respectively, separated by 2m are attracted by a force of 4N (Newtons).

 - (c) (2 points) What is the force between two objects, each of mass 1kg, separated by 3m?

2. (2 points) Find the domain of the function $f(x) = \frac{2\sqrt{x}}{x+5}$

3. (2 points) Sketch the graph of $f(x) = (|3x + 1| - 3)^2$ by first making a table of values

x	$f(x)$

