

Math 223 Quiz # 1	Spring 97–Sec. 11 Alberto Corso	Name: _____ _____	Please, be neat and show all your work; circle your answer.
----------------------	------------------------------------	----------------------	---

1. Find the domain of the function: $f(x) = \frac{\sqrt{2x-4}}{3x-9}$.

A: $x \geq 2$; B: $x > 3$ and $x \neq 2$; C: $x \neq 3$; D: $x > 2$ and $x \neq 3$; E: $x \geq 2$ and $x \neq 3$.

pts: /3

2. Find the equation of the line passing through the points $P(-2, -1)$ and $Q(1, 3)$.

A: $y = -2x + 5$; B: $y = -\frac{4}{3}x + \frac{13}{3}$; C: $y = -\frac{4}{3}x - \frac{5}{3}$; D: $y = \frac{4}{3}x - \frac{13}{3}$; E: $y = \frac{4}{3}x + \frac{5}{3}$.

pts: /3

3. A closed box with a square base has a surface of 4,000 square centimeters. Express its volume as a function of the length of its base.

pts: /4

grade: /10