

Math 151

Quiz 1

Justify all answers with neat and organized work. Clearly indicate your answers.
10 points possible.

1. (5 pts.) At the surface of the ocean, the water pressure is the same as the air pressure above the water, 15 lb/in^2 . Below the surface, the water pressure increases by 4.34 lb/in^2 for every 10 ft of descent. Express the water pressure as a function of the depth below the ocean surface.

2. (5 pts.) The graph of a function $f(x)$ consists of two straight line segments. The first is from the point $(-1, 0)$ to the point $(3, 2)$. The second is from $(3, 2)$ to $(4, 0)$. Find an expression for this function.