

Math 170 Quiz 1

Name:-----
(First name) (Last name)

1. Determine whether $f(x)$ is defined for the given value of x , if it is defined, give its value.

$f(x) = \sqrt{x + 10}$ with domain $-10 \leq x < 0$.

(a) $x = 0$ (2pt.)

(b) $x = 9$ (2pt.)

(c) $x = -1$ (2pt.)

2. Find the equation of the line passing through the two points $(1, -0.75)$ and $(0.5, 0.75)$. (5pt.)

3. Given three data points $(0, 1)$, $(1, 1)$, $(2, 2)$ and a linear model $y = 0.5x + 0.9$

(a) Find the predicted y -values. (3pt.)

(b) Find the residuals. (3pt.)

(c) Find the SSE(sum-of-squares error). (3pt.)