MATH 108 – QUIZ 2 – 10 SEPTEMBER 1998

Answer all of the following questions in the space provided. Show all work as partial credit may be given. Answers without justification, even if they are correct, will earn no credit.

1. (4 pts.) Find an equation for the line that passes through the points (2,5) and (-1,0).

2. (3 pts.) A manufacturer of toothpaste has a fixed cost of \$1200 per month to lease equipment and factory space and production costs of 50 cents for each tube of toothpaste. Express the total cost, C, as a linear function of the number, x, of tubes of toothpaste produced per month.

3. (3 pts.) Suppose that a farmer wishes to fence off a rectangular garden of area 150 square feet. Express the total length of fencing used (in feet) as a function of the length of one of the sides of the garden.