QUIZ 4

This quiz covers sections 1.6, 1.7 and 2.1.

Exercise 1: Solve the radical equation and check the proposed solutions: $\sqrt{x+3} = x-3$ (1 point)

Exercise 2: Solve the equation with rational exponent and check the proposed solutions: $(x + 5)^{\frac{2}{3}} = 4$ (1 point)

Exercise 3: A company manufactures and sells personalized stationery. The weekly fixed cost is \$3000 and it costs \$3.00 to produce each package of stationery. The selling price is \$5.50 per package. How many packages of stationery must be produced and sold each week for the company to generate a profit? (2 points)

Exercise 4: Evaluate and simplify g(-1), g(x + 2) and g(-x) where g is the function: $g(x) = x^2 - 10x - 3$ (3 points)

Exercise 5: Use the following graph of f(x) to determine

a) the function's domain and range

b) the x- intercepts and the y-intercepts

