Raggs, Ltd., a clothing firm, has fixed costs of $10,000 a year. These costs, such as rent, maintenance, and so on, must be paid no matter how much the company produces. To produce \( x \) units of a certain kind of suit, it costs $20 per suit (unit) in addition to the fixed costs. That is, the variable costs for producing \( x \) of these suits are \( 20x \) dollars. These costs are due to the amount produced and stem from items such as material, wages, fuel, and so on. Raggs, Ltd., sells \( x \) suits at $80 per suit.

a) Graph the total cost function.

b) What is the total cost of producing 100 suits? 400 suits

c) Graph \( R(x) \) and \( C(x) \) using the same set of axes.

d) Find the Profit function \( P(x) \)

e) Approximately how many suits need to be sold to break even?