Marginal cost:

1. If the cost of manufacturing x items is C(x) = x3 + 20x2 + 90x + 15, find the marginal cost function and compare the marginal cost at x = 50 with the actual cost of manufacturing the 50th item.

2. If the cost of manufacturing x items is C(x) = x4 + 14x2 + 60x + 35, find the marginal cost function and compare the marginal cost at x = 50 with the actual cost of manufacturing the 50th item.

3. If the cost of manufacturing x items is C(x) = x3 + 21x2 + 110x + 20, find the marginal cost function and compare the marginal cost at x = 100 with the actual cost of manufacturing the 100th item.

4. If the cost of manufacturing x items is C(x) = x3 + 11x2 + 40x + 10, find the marginal cost function and compare the marginal cost at x = 100 with the actual cost of manufacturing the 100th item.

page 335 in Smith calculus textbook.

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