ENG512



Question 1: Use double integral in rectangular co-ordinates to compute area of the region bounded by the curvesy x and y x^2 , in the first quadrant.

Question 2: After a markup of 30% on sales a watch sells for Rs. 225. What is its cost price?

Question 3: After marketing analysis, calculate the break even point in rupees provided that fixed cost = Rs.500, contribution margin = Rs.250 & expected sale rate is 1000 per item.

Question 4: After spending 30 minutes in exercise a man loses about 4% of his body weight. If his weight before exercise is 70 kg what will be his weight now?

Question 5: A gold chain is sold for Rs. 6500 at a gain of 25%. Find the profit.

Answer: Selling price = 6500 Profit = 25% Profit in Rs= (6500*25)/100= Rs 1625

Question 6: A man borrows \$39000 for 1 and half year at a rate of 1.65%. What is the simple interest he has to pay?

Answer:

Simple interest is given by

I= P*R*T/100 P= principal = \$39000 R= interest rate= 1.65% T= 1.5 year Interest, I =(39000 * 1.65 *1.5)/100 = Rs 965.25