

# An eConcordia Examination Answer Sheet

Course: MATH208EC

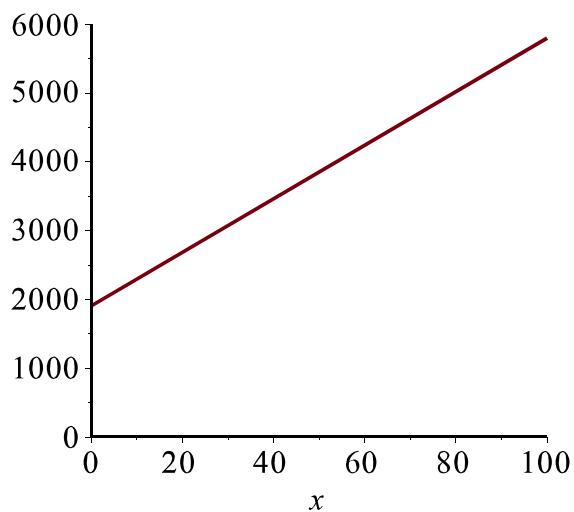
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## Question 1

A)  $C(x) = 39x + 1905$

B)



C) The slope is the marginal cost. It is the cost of producing each additional tennis racket. The y-intercept is the fixed costs. It is the cost that will be incurred when no rackets are made.

## Question 2

A)  $x = 3, x = -1$

B)  $x = 6, x = -1$

C)  $x = 8$

D)  $x = 4$

E)  $x = 4$

**Question 3**

A) 74,700

B)  $\frac{1}{2}$

**Question 4**

A) Approximately 35 months.

B) \$5,000 of interest was earned.

**Question 5**

A) The monthly payment will be \$1386.77

B) After 15 years, the outstanding balance will be \$140,905.98

C) After 20 years, the outstanding balance will be \$76,418.71.

**Question 6**

$$x = \frac{176}{49}, y = \frac{24}{49}, z = \frac{1}{7}$$

**Question 7** Note: The units here are billions of dollars

$$x_1 = 40.1, x_2 = 29.4, x_3 = 34.4$$

**Question 8**

All points on the line segment between  $(2, 6)$  and  $(5, 0)$  will have the maximum value of 10.

**Question 9**

A) 30,045,015 ways.

B) 2,661,120 ways.

**Question 10**

0.4777, or 47.77%