

Derivative Applications

3.5A – Interpretations

#1) $P(x)$ = total profit from selling x blocks of cheese
 x = number of blocks of cheese

Interpret $P(70) = 700$

Interpret $MP(70) = 12$ (Give two interpretations)

Interpret $AP(70) = 10$

Interpret $MAP(70) = 2$

#2) $C(n)$ = total cost from making n Wii U's.
 n = number of Wii U's

Interpret $C(100) = 700,000$

Interpret $MC(100) = 6,050$ (Give two)

Interpret $AC(100) = 7,000$

Interpret $MAC(100) = -50$

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#3) $R(x)$ = total revenue from selling x sticks
 x = number of sticks

Interpret $R(10) = 200$

Interpret $MR(10) = 25$ (Give two interpretations)

Interpret $AR(10) = 20$

Interpret $MAR(10) = 5$

#4) $C(n)$ = total cost from making n Shlakers
 n = number of Shlakers

Interpret $C(25) = 2,500$

Interpret $MC(25) = 98$ (Give two)

Interpret $AC(25) = 100$

Interpret $MAC(25) = -2$