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1. a) $(5, 3)$

b) $(6, 1)$

c) $\frac{y_2 - y_1}{x_2 - x_1} = \frac{1 - 3}{6 - 5} = \frac{-2}{1} = -2 \quad \underline{m = -2}$

d) It is the instantaneous rate of change at $x = 5$

2. ~~A~~ - The instantaneous rate of change is positive $(2, 12), (1.5, 10) \frac{10 - 12}{1.5 - 2} = 4$

~~B~~ - It is zero $(4, 16), ($

C - It is negative $(7, 7), (7.5, 4) \frac{4 - 7}{7.5 - 7} = -6$

b) A $(2, 12)$

C $(7, 7)$

$(3, 16)$

$(6, 13)$

$$\frac{16 - 12}{3 - 2} = \frac{4}{1} = 4$$

$$\frac{13 - 7}{6 - 7} = \frac{6}{-1} = -6$$

$$= 4 \text{ m/s}$$

$$= -6 \text{ m/s}$$