

Find the rate of changes: a) Between A and D:

- b) Between D and C:
- c) Between C and A:



Property of ROC of a straight line:

- On a straight line the ROC is constant (the same) no matter which 2 points we pick.
 - Where as on a curve the ROC changes (is not constant) along the curve.
- On a graph we can count the units:

$$\blacktriangleright$$
 ROC = $\frac{rise}{run}$

• Given 2 points A(x₁,y₁) and B(x₂,y₂):

▶ ROC = $\frac{y_2 - y_1}{x_2 - x_1}$

Find the rate of Change for the Following

Ex 1: A tank initially contains 56 000 L of eggnog. The tank is leaking! After 5 hrs the tank has 45 000 L.



Find the rate of Change for the Following

Ex 2: Jen earns \$220 for 20 hours of work. For 10 hours of work she earns \$120. What is her hourly rate?



Find the value of c

Ex 3: The slope is 2 G(0,-5) and B(c,3)

Ex 4: The slope is 1/2 S(-1,2) and T(c,6)

Practice: page 106 # 4-7

