

3rd exercise:

$$1) \text{ rate of } \overset{\text{new price after.}}{1^{\text{st}}} \text{ increase } 'a_1' = 1 + \frac{10}{100} = 1.1.$$

$$\text{rate of } \overset{\text{new price after.}}{2^{\text{nd}}} \text{ increase added by bank } 'a_2' = 1 + \frac{20}{100} = 1.2$$

$$\text{So, total rate is } a_1 \times a_2 = 1.2(1.1) \\ = 1.32$$

$$\text{Thus Final price} = a_1 \times a_2 (\text{initial price}) \\ = 1.32(21,750,000) \\ = 28,710,000 \text{ L.L.}$$

$$2) a) \quad y = a_1 a_2 x \\ y = 1.32x.$$

$$b) \text{ Total Increase (rate)} = 1.32 - 1 \\ = 0.32$$

Thus percentage of increase = 32%.

4th exercise:

$$1) \quad S(1;2), K(2;0), D(3;0), \\ C(3;3) \text{ \& } A(1;3).$$

$$2a) \quad SC = \sqrt{(x_c - x_s)^2 + (y_c - y_s)^2} \\ = \sqrt{2^2 + 1^2} \\ SC = \sqrt{5} \text{ units of length.}$$