

$$Cov(X, Y) = \frac{1}{4} \left\{ \left( 4 - \frac{149}{4} \right) (17 - 14) + \left( 15 - \frac{149}{4} \right) (-4 - 14) + \left( 30 - \frac{149}{4} \right) (-7 - 14) + \left( 100 - \frac{149}{4} \right) + (50 - 14) \right\} = 678$$

$$slope_A = \frac{Cov(X, Y)}{\sigma_x^2} = \frac{678 \times 16}{22363} = 0.485$$

$$slice_B = \mu_y - A\mu_x = 14 - 0.485 \times \frac{149}{4} = -4.066$$

$$y = 0.485x - 4.066$$