Gaven:

$$\bar{\chi} = \frac{2\chi}{\eta} = \frac{2+4+5+3+5+\chi}{6} = 4.33$$

$$\bar{\chi} = \frac{2\chi}{\eta} = \frac{35+60+20+50+55+60}{6} = 46.66$$

Date:

$$i.m = \frac{\angle(x-\overline{x})(y-\overline{y})}{\angle(x-\overline{x})}$$

calculate:

$$\chi=2$$
, $\eta=35$ $\Rightarrow (\pi2-4.33)(35-46.66)=27.16$
 $\chi=4$ / $\eta=60$ $\Rightarrow (4-4.33)(60-46.66)=4.40$
 $\chi=5$ $\gamma=20$ $\Rightarrow (5-4.33)(20-46.66)=-17.86$

$$\chi = 3$$
 $\gamma = 50 \Rightarrow (3 - 4.33)(50 - 46.66) = -4.44$

$$\chi = 5'$$
 $y = 55 \Rightarrow (5 - 4.33) (55 - 46.66) = 5.58$

$$\chi = 7$$
 $\gamma = 60 \Rightarrow (\chi - 4.33) (60 - 46.66) = 35.61$

≥ 41.66

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calculate $\leq (\chi - \bar{\chi})^{\gamma}$ x=2 -then $(2-4.33)^{\gamma}=5.42$ x = 9 then $(4-4.33)^{2} = 0.10$ 2 = 5 then (5-4.33) = 0.44 $\chi = 3$ then $(3-4.33)^{\gamma} = 1.76$ $\chi = 5$ then (5-4.33) v = 0.44 $\chi = \chi$ -then $(\chi - 4.33)^2 = \chi.12$ E(x-x) = 5.42 + 0.10 + 0.44 + 1.76 + 0.44+712 = 15 . 28 Now, $M = \frac{2(x-\bar{x})(y-\bar{y})}{2(x-\bar{x})^2} = \frac{41.66}{15.28}$ = 2.72 For, Intercepta c = 9 - mx $=46.66-[2.72\times4.33]$ = 34.88

 $MSE = \frac{1}{n} \stackrel{?}{\underset{i=1}{\text{i=1}}} (4i - 4i)$ Squared $1 \cdot (35 - 40.403226)^{2} = 29.19$ $2 \cdot (60 - 45.645161)^{2} = 206.06$ $2 \cdot (60 - 45.645161)^{2} = 792.98$ $MSE = \frac{1}{n} \stackrel{?}{\geq} (4i - \hat{4}i)$

 $3. (20-48.266129)^{V} = 798.98$

 $4.(50-43.024194)^2 = 48.66$

 $5 \cdot (50 - 56.887097) = 0.79$

 $6 \cdot (55 - 48.266129)^{V} = 45.35^{V}$

7.(60-53.508065)=42.15

Sum of squared difference;

= 29.19+206.06+798.98+48.66+0.79 +45.35+42.15

= 1171.18

MSE = 1171.18 = 167.3099078

MAE = - 1 = (di - di)

Squared differences:

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. 35-40.403226] = 5.403226

. [60-45,645161] = 14.354839

1 20 - 48. 026,196] = 28.266229

150-43.0241941 = 6.975806

. [50-50.887097] = 0.887097

. [55-48.266129] = 6.733871

. [60-53.508065] = 6.491935

Sum of absolute differences:

2 = 5.403226 + 14.354839 + 28.266229 + 6.975806 + 0.887097 + 6.733871 + 6.491935

\$ 69.112003

MAE = 69.112003

=9.87