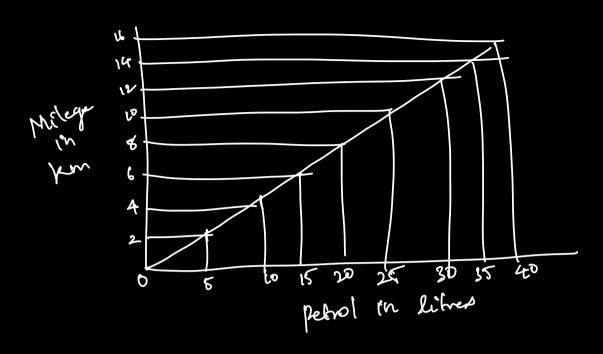


Mumber of Topping delle Loot of Pizza humandar a.50 < 12.50 < 14.00

rate of charge of cost of Tizza

Take of charge of Topping $(2.50 - 9.50) = \frac{3}{2} = 1.5$ 3 - 1 $14 - 12.50 = \frac{1.5}{1} = 1.5$ 4 - 3

Slape



Target = y - axis = Mileage Independent = petrol

= roote of Change of Mileoge
rate of Change of petrol

= 14 - 10

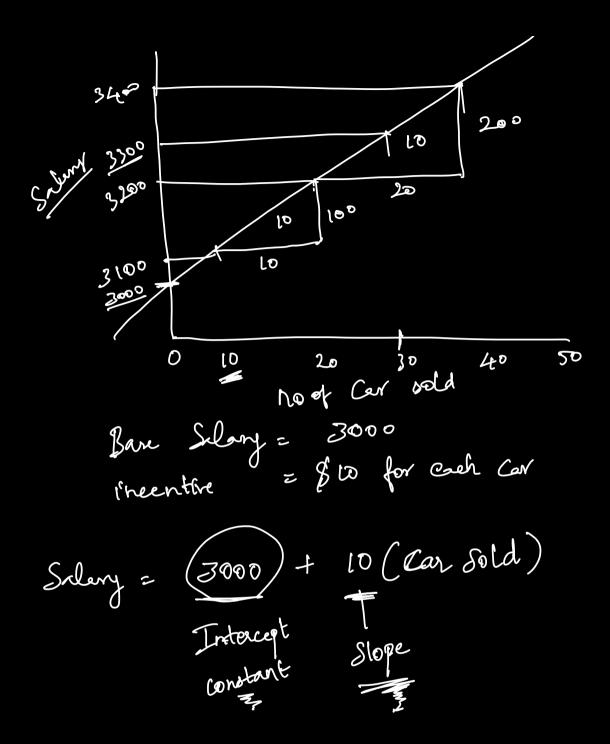
15 - 5

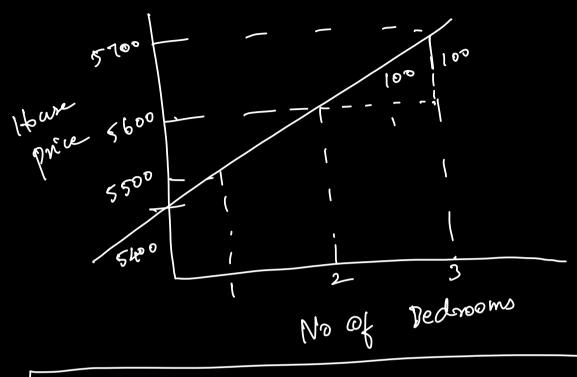
= 4 = 0.4

10

ry 1 libre of petrol yancar Drive

for every! libre of petrol you can drain for every to liter of petrol you can drain of Rm





Cost of = 5400 + 100 (Number of bedrooms)

Linear Algebra $2\pi + 3y = 6 \times 3$ $3\pi + 2y = 9 \times 2$ 62/ + 9y= 18 c, 62 t, 4y= 18 324 24= 9 (),0 326 = 9

$$5x - 2y = 20 - x5$$

$$3x + 5y = 30 - x2$$

$$25x - 10y = 100$$

$$6x + 10y = 60$$

$$11x = 160$$

$$x - 2y = 20$$

$$5(160) - 2y = 20$$

$$5(160) - 2y = 20$$

$$-2y = 20 - 8(160)$$

$$y = +2.9$$

$$2x + 3y + Z = 16$$

$$x + y + Z = 10$$

$$x + 2y + Z = 12$$

$$x + 2y + Z = 12$$

$$y = 12$$

$$y = 12$$

$$x + 2y + Z = 10$$

$$x + 2y + Z$$

$$\begin{bmatrix} A & | I \end{bmatrix} \in \text{Idenkity}$$

$$\begin{bmatrix} I & | A^{-1} \end{bmatrix}$$

$$A = \begin{bmatrix} 3 & 0 & 2 \\ 2 & 0 & -2 \\ 0 & | & 1 \end{bmatrix}$$

$$A = \begin{bmatrix} 3 & 0 & 2 \\ 2 & 0 & -2 \\ 0 & | & 1 \end{bmatrix}$$

$$A = \begin{bmatrix} 3 & 0 & 2 \\ 2 & 0 & | & 1 \\ 0 & 0 & | & 1 \end{bmatrix}$$

$$A = \begin{bmatrix} 3 & 0 & 2 \\ 2 & 0 & | & 1 \\ 0 & 0 & | & 1 \end{bmatrix}$$

$$A = \begin{bmatrix} 3 & 0 & 2 \\ 2 & 0 & | & 1 \\ 0 & 0 & | & 1 \end{bmatrix}$$

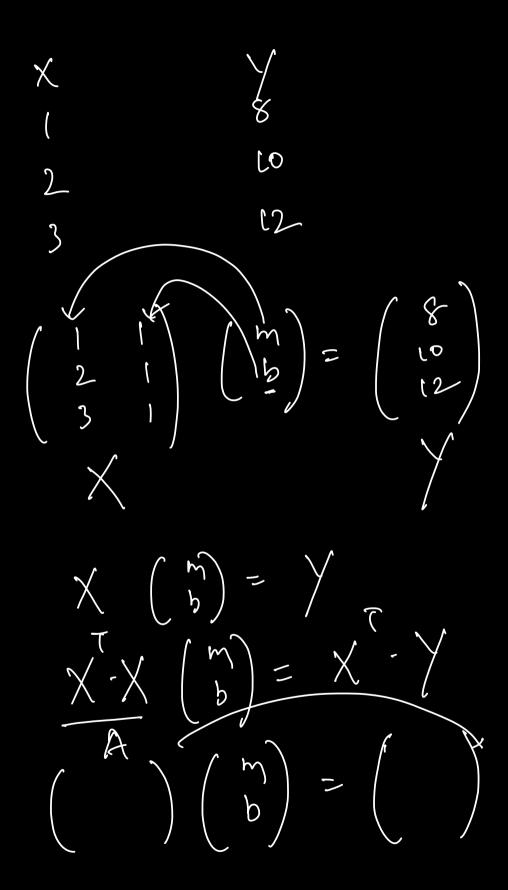
$$\begin{bmatrix} 5^{2} & 0 & -2 & 0 & 0 & 0 & 0 \\ 2 & 0 & -2 & 0 & 0 & 0 & 0 \\ 2 & 0 & 1 & 0 & 0 & 0 & 0 \\ 2 & 0 & 0 & 0 & 0 & 0 \\ 2 & 0 & 0 & 0 & 0 & 0 \\$$

ľ

Slope, Intercept

Slope, Therefore

$$(m)$$
 (m)
 (m)

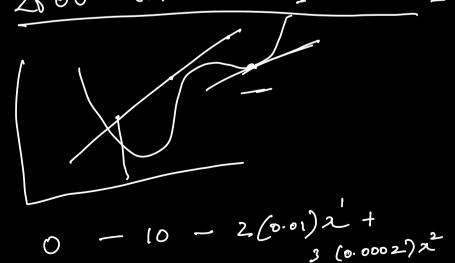


	-
# Bed Loom	House Price
2	45 40
ζ	
3	60
5	75

Perioaline

Manufacture Discourt

ConV(x) = 2500 - conV - 0.00 = 27 + 0.000 = 2x



3 (0.0002)2

$$\frac{d}{dn} = \frac{2^{1} + 2^{2} + 500 + 2}{21 + 32 + 0 + 1}$$

$$= \frac{21 + 32 + 0 + 1}{21 + 0 + 1}$$

$$= \frac{10 - 2(0.01) 2 + 6(0.00) 2^{1}}{6(0.00) 2^{1}}$$

$$= \frac{10 - 2(0.01) 2 + 0.0006^{1}}{2 + 0.0006^{1}}$$

$$= \frac{10 - 0.02(200) + 0.0006^{1}}{21 + 0.0006}$$

$$= \frac{10 - 4 + 24}{2 + 0.0006}$$

$$= \frac{10 - 4 + 24}{2 + 0.0006}$$

$$\frac{d(300)}{dx} = -10 - 0.02 (300) + 20.0006 (300)^{2}$$

$$= -10 - 6 + 54$$

$$= -16 + 54$$

$$= 38$$

$$y = 6\pi^2 + 2\pi - 10 - 7$$

what is the value of 22 where

y is minimum?

 $dy = 2(6x^{2-1}) + 1(2x^{2-1}) - 0$
 $= 2(6\pi) + 1(2\pi)$
 $= (2\pi) + 2(1)$
 $= (2\pi) + 2(1)$

learning rate d(0) , +0 = 0 direction derivate -> learning rate - magnitude Start = 0 direction torfind derivative -> learning rate >

