D given,
$$x-2y=1 \rightarrow 0$$
 $\Rightarrow x=2y+1$
 $3x+2y=11 \rightarrow 0$

for (1), when $x=0 \Rightarrow y=-0.5 \Rightarrow (0.-0.5)$

when $x=1 \Rightarrow y=0 \Rightarrow (1,0)$

when $x=-1 \Rightarrow y=-1 \Rightarrow (-1,-1)$
 $x=1 \Rightarrow y=4 \Rightarrow (1,4)$
 $x=-1 \Rightarrow y=4 \Rightarrow (-1,7)$
 $x=-1 \Rightarrow y=4 \Rightarrow (-1,7)$
 $x=-1 \Rightarrow y=7 \Rightarrow (-1,7)$

the two lines intersect at (3,1) here the given system of equations have a unique solution.

Now, convert the given system of equations in

coefficient matrix form.

$$R_{2} \rightarrow R_{2} - 3R_{1}$$

$$\begin{bmatrix} 1 & -2 & 1 \\ 3 & 2 & 11 \end{bmatrix}$$

$$\begin{bmatrix} 1 & -2 & 1 \\ 0 & 8 & 8 \end{bmatrix}$$

 $\begin{bmatrix} 1 & -2 & 1 \\ 0 & 1 & 1 \end{bmatrix}$ In the reduced echelon form, we get a,3 = 3 & azi3=1 which same as the point of intersection of the two lines shown in the graph. Hence, the given system of equations has a unique solution. 2x+3y+Z=8 Q2) given, 4x+7y+5Z=20 -2y +2Z =0. R = RitAR: Solve using Groussian elimination. Convert the given system of equation in coefficient matrix form! $A = \begin{bmatrix} 2 & 3 & 1 & 8 \\ 4 & 7 & 5 & 20 \end{bmatrix}$ Ri > Ri/2.

R2-3 R2-4R1 $R_1 \rightarrow R_1 - 1.5 R_2$.; $R_3 \rightarrow R_3 + 2R_2$. 1 0 · -4 | -2 | 1 word of the form of the point of the R3 -> R3/8 1st ni nevade und ovot alt for R1 -> R1+4R3 ; R2-3R3 001 hence, x=2, y=1, & Z=1 iare the solution for the given system of equations. (月) 日/汉.

given quodaat equation

$$q(x) = ax^2 + bx + C$$

Set of data points $D = \{(1,4),(2,8),(3,16)\}$

Substitute the data point $(1,4)$ in eq. D
 $A = a(1)^2 + b(1) + C$

the matrix is

 $A = a(2)^2 + b(2) + C$

matrix is

 $A = a(3)^2 + b(3) + C$

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matrix

 $A = a(3)^2 + b(3) + C$
 $A = a$

R1 > R1 - R2 8 R3 > R3 + 6 R2 (1) P (1 ((110), 70.5) (1) = 0 sining of obs parties. R1 -> R1+0.5R3 & R2 -> R2-1.5R3 heno, the a = 2, b = -2, & C=1 on the Coefficients of the mailing e. E = E - 4 E E E = E - 4 E E