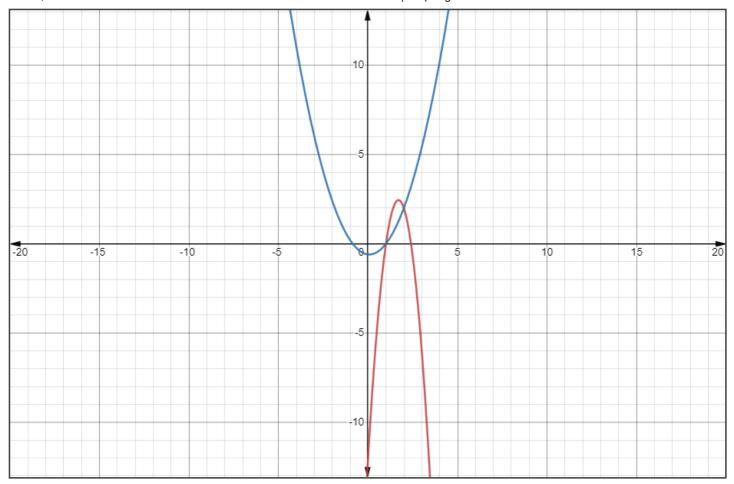
(1)
$$y = \alpha n^2 + bx + e$$
 (0,3) (2,4)
 $y = \alpha n^2 + bx + e$ (0,3) (2,4)
 $y = 4a + 2b + 3$
 $y = 4a + 2b - 2$
(1,-1)
-1 = $a + b + e = 3$
 $y = 4a + 2b = 1$
 $y = 4a + 2b = 1$
 $y = 4a + 2b = 1$
 $y = 4a + 2b = 8$
 $y = 4a + 2b = 1$
 $y =$

So linear equation and les y = 2x2-17x+3

(2) If the degree of polynomial is N then we need NH points to find equation. Because if we take example of quadratic equation here, the degree of polynomial is 2 but we need 3 points where I of the point will decide whether the parabola is positive curve of negative Curne.

(3)
$$y = ax^2 + bx + c$$
 $(1,0)$
 $0 + b + c = 0$
 $(2,2)$
 $4a + 2b + c = 2$
 $(3,-6)$
 $3a + 3b + c = -6$
 $3a + 3b + c = -$



$$y = -5x^2 + 17x - 12$$



$$y = -5x^{2} + 17x - 12$$

$$y = \frac{7}{10}x^{2} - \frac{x}{10} - \frac{3}{5}$$

(b)
$$(-3,6)$$
 $(1,0)$ $(2,2)$
 $y = ax^2 + bx + c$
 $6 = 9a - 3b + c$
 $0 = a + b + c$
 $2 = 4a + 2b + c$

$$\begin{bmatrix}
9 & -3 & 1 & 6 \\
1 & 1 & 1 & 0 \\
4 & 2 & 1 & 2
\end{bmatrix}$$
 $R_2 \rightarrow R_2 - \frac{1}{9}R_1$

$$\begin{bmatrix}
9 & -3 & 1 & 6 \\
0 & 4/3 & 8/9 - 4/3 \\
4 & 2 & 1 & 2
\end{bmatrix}$$
 $R_2 \rightarrow R_3$

$$\begin{bmatrix}
9 & -3 & 1 & 6 \\
0 & 4/3 & 8/9 - 4/3 \\
0 & 4/3 & 8/9 - 4/3
\end{bmatrix}$$
 $R_2 \rightarrow R_3$

$$\begin{bmatrix}
9 & -3 & 1 & 6 \\
0 & 10/3 & 5/9 - 4/3 \\
0 & 4/3 & 8/9 - 4/3
\end{bmatrix}$$

$$\begin{bmatrix}
9 & -3 & 1 & 6 \\
0 & 10/3 & 5/9 - 4/3 \\
0 & 4/3 & 8/9 - 4/3
\end{bmatrix}$$

$$\begin{bmatrix}
9 & -3 & 1 & 6 \\
0 & 10/3 & 5/9 - 4/3 \\
0 & 0 & 4/3 - 2
\end{bmatrix}$$

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\end{bmatrix}$$

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0 & 10/3 & 5/9 - 4/3 \\
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\end{bmatrix}$$

$$\begin{bmatrix}
9 & -3 & 1 & 6 \\
0 & 10/3 & 5/9$$

(c) The two points are (2,2) and (1,0)

(d) The polynomial need neith be
$$y = an^3 + bn^2 + cxtd$$

(1,0) $a+b+c+d=0$
(2,2) $8a+4b+2c+d=2$
(3,-6) $27a+9b+3c+d=-6$
(6,-3) $-27a+9b-3c+d=6$

$$\begin{bmatrix}
1 & 1 & 1 & 1 & 0 \\
8 & 4 & 2 & 1 & 2 \\
27 & 9 & 3 & 1 & -6 \\
-27 & 9 & -3 & 1 & 6
\end{bmatrix}$$