$$3x + 6y = 15$$

 $y - z = -1$
 $-2x - 4y + z = -7$

Elimination

$$\begin{pmatrix}
1 & 2 & 0 & | & 5 \\
0 & (1) & -1 & | & -1 \\
0 & 0 & 1 & | & 3
\end{pmatrix}$$

Tuse 1 to clear column -2P2 + R.

$$\begin{bmatrix} 1 & 0 & 2 & 7 \\ 0 & 1 & -1 & -1 \\ 0 & 0 & 1 & 3 \end{bmatrix}$$

$r^2 = a^2 \cos 2\theta$ I lenniscate