

Ts
$$(-2, -6, 3)$$
 a Solution 0S
 $\begin{cases} 5x - y + 3z = -1 \\ 3x + 4y - z = 5 \\ 9x + 5y + 7z = 1 \\ -10 + 6 + 9 = .7 \\ -10 + 6 + 9 = .7 \\ -10 + 15 = -$

Solve

$$\begin{cases} x + y + 4z = -1 \\ 3x + y - 4z = 3 \\ -4x - y + 8z = -2 \\ -4x - y + 8z = -2 \\ -3x + 12z = -3 \\ Divide by -3 \\ 1x - 4z = 1 \\ -4z = 1 \\ -3z + y + 4z = -1 \\ -4z = 2 \\ -3x + 12z = -3 \\ -3x + 2z = 2 \\ -3x +$$

Solve

$$\begin{cases} x + 2y + 4z = 3 \\ y + 3z = 5 \\ -2z = -7 \end{cases} \xrightarrow{\Rightarrow 2z + 2y + 4z = 3 \\ -2z = -3 \\ -2z = -7 \\ x - 2z = -7 \\ -1z - 2z = -7 \\ 0 = 0 \\ True \end{cases} \xrightarrow{\Rightarrow 12z + 2y + 4z = 3 \\ -2z = -3 \\ -2z = -7 \\ True \xrightarrow{\Rightarrow 13z = 5}{-2z - 3z = -7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2z - 3z = -7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2z - 3z = -7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2z - 3z = -7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2z - 3z = -7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2z - 3z = -7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2z - 3z = -7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2z - 3z = -7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2z - 3z = -7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2z - 3z = -7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2z - 3z = -7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2z - 7} \\ \xrightarrow{\Rightarrow 13z = 5}{-2}{-2} \\ \xrightarrow{\Rightarrow 13z = 5}{-2}{-2} \\ \xrightarrow{\Rightarrow 13z = 5}$$

System of non-linear equations

$$\begin{cases} x = -7y - 50 \quad \text{Use Subs. method} \\ x^{2} + y^{2} = 100 \quad (-7y - 50)^{2} + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50)(-7y - 50)(-7y - 50)(-7y - 50) + y^{2} = 100 \\ (-7y - 50)(-7y - 50)(-7$$

Solve

$$2x + y = 5$$

 $2^{2} + y^{2} = 50$
 $3^{2} + y^{2} = 50$
 $3^{2} + y^{2} = 50$
 $3^{2} + (5 - 2x)^{2} = 50$
 $2^{2} + (5 - 2x)^{2} = 50$
 $2^{2} + 25 - 20x + 4x^{2} - 50 = 0$
 $5x^{2} - 20x - 25 = 0$
 $x^{2} - 4x - 5 = 0$
Final
Final
 $4x + (5, -5), (-1, 7)$
Ans.
Hint: Isolate One
Variable, and
Use Subs.
method.
 $3 - 5 - 2x$
 $3 - 5 - 2x + 1 = 0$
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 $3 - 2$

Solve by elimination

$$-2\left(2x^{2} + y^{2} = 17\right)$$

 $2^{2} + 2y^{2} = 22$
 $-3x^{2} - 2y^{2} = -34$
 $x^{2} + 2y^{2} = 22$
 $-3x^{2} - 12$
 $-3x^{2} - 12$
 $2x^{2} + y^{2} = 17$
 $2(4) + y^{2} = 17$
 $y^{2} = 9$
 $y^{2} = 9$
 $y^{2} = 4$
 $y^{2} = 17$
 $y^{2} = 4$
 $y^{2} = 17$
 y

