

where $y = \frac{3}{5}$

$$x - 5\left(\frac{3}{5}\right) - 2 = 0$$

$$x - 3 - 2 = 0$$

$$x - 5 = 0$$

$$x = 5$$

points are $(5, \frac{3}{5})$ and $(-3, -1)$

where $y = -1$

$$x - 5(-1) - 2 = 0$$

$$x + 5 - 2 = 0$$

$$x + 3 = 0$$

$$x = -3$$

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$$x - y - 14 = 0 \rightarrow \textcircled{a}$$

$$x^2 + y^2 - 6x + 8y = 0 \rightarrow \textcircled{ii}$$

in eq. i
 $x = y + 14 \rightarrow \textcircled{iii}$

Put eq. iii into ii

$$(y + 14)^2 + y^2 - 6(y + 14) + 8y = 0$$

$$y^2 + 28y + 196 + y^2 - 6y - 84 + 8y = 0$$

$$y^2 + y^2 + 28y - 6y + 8y + 196 - 84 = 0$$

$$2y^2 + 30y + 112 = 0$$

$$y^2 + 15y + 56 = 0$$

$$y = -7 \text{ and } y = -8$$

where $y = -7$ in eq. i

$$x - (-7) - 14 = 0$$

$$x + 7 - 14 = 0$$

$$x - 7 = 0$$

$$x = 7$$

points are $(7, -7)$ and $(6, -8)$

where $y = -8$ in eq. i

$$x - (-8) - 14 = 0$$

$$x + 8 - 14 = 0$$

$$x - 6 = 0$$

$$x = 6$$

$$3. x - 5y - 2 = 0 \rightarrow \textcircled{a}$$

$$x^2 + 25y^2 - 6xy - 16 = 0 \rightarrow \textcircled{ii}$$

in eq. a
 $x = 5y + 2 \rightarrow \textcircled{iii}$

Put eq. iii into ii

$$(5y + 2)^2 + 25y^2 - 6(5y + 2)y - 16 = 0$$

$$25y^2 + 20y + 4 + 25y^2 - 30y^2 - 12y - 16 = 0$$

$$25y^2 + 25y^2 - 30y^2 + 20y - 12y - 16 + 4 = 0$$

$$20y^2 + 8y - 12 = 0$$

$$y = \frac{3}{5}, -1$$