

$$\begin{aligned} -x(5x+2) &= -3x^2 \\ -5x^2 - 2x &= -3x^2 \\ -2x^2 - 2x &= 0 \end{aligned}$$

$$C.S. [-1, 0]$$

$$x = \frac{-(-2) \pm \sqrt{(-2)^2 - 4(-2)(0)}}{2(-2)}$$

$$x = \frac{2 \pm \sqrt{4}}{-4}$$

$$x_1 = \frac{2+2}{-4} = -\frac{4}{4} = -1 \quad x_2 = \frac{2-2}{-4} = \frac{0}{-4} = 0$$

$$\frac{1}{4}y^2 - \frac{3}{8}y - \frac{1}{4} = 0$$

$$y = \frac{-(-\frac{3}{8}) \pm \sqrt{(-\frac{3}{8})^2 - 4(\frac{1}{4})(-\frac{1}{4})}}{2(\frac{1}{4})}$$

$$y = \frac{\frac{3}{8} \pm \sqrt{\frac{9}{64} + \frac{1}{4}}}{\frac{1}{2}}$$

$$y = \frac{\frac{3}{8} \pm \sqrt{\frac{199+100}{6400}}}{\frac{1}{2}} = \frac{\frac{3}{8} \pm \sqrt{\frac{299}{400}}}{\frac{1}{2}}$$

$$y = \frac{\frac{3}{8} \pm \sqrt{\frac{61}{100}}}{\frac{1}{2}} = \frac{\frac{3}{8} \pm \sqrt{\frac{61}{100}}}{\frac{1}{2}}$$

$$y = \frac{\frac{3}{8} \pm \sqrt{\frac{61}{100}}}{\frac{1}{2}} = \frac{12 \pm 2\sqrt{61}}{10}$$

$$C.S. \left[\frac{12 \pm 2\sqrt{61}}{10} \right]$$

$$16x^2 - 9 = 0$$

$$C.S. \left[-\frac{3}{4}, +\frac{3}{4} \right]$$

$$x = \frac{0 \pm \sqrt{0^2 - 4(16)(-9)}}{2(16)}$$

$$x = \pm \sqrt{\frac{576}{32}}$$

$$x = \pm \frac{24}{32} = \pm \frac{3}{4}$$

Preview from Notesale.co.uk
Page 3 of 3