Lös med kvadratkomplettering

$x^2 - x - 2 = 0$

$x^2 - x = 2$

$x^2 - x + \frac{1}{4} = 2 + \frac{1}{4}$

$x^2 - x + (\frac{1}{2})^2 = \frac{9}{4}$

$(x - \frac{1}{2})^2 = \frac{9}{4}$

$x - \frac{1}{2} = \pm \frac{3}{2}$

$x = \frac{1}{2} \pm \frac{3}{2}$

$x_1 = 2 \quad x_2 = -1$

$x^2 - \frac{5x}{2} - \frac{3}{2} = 0$

$x^2 - \frac{5x}{2} + (\frac{5}{4})^2 = (\frac{5}{4})^2 + \frac{3}{2}$

$(x - \frac{5}{4})^2 = \frac{25 + 24}{16}$

$x - \frac{5}{4} = \pm \sqrt{\frac{49}{16}}$

$x = \frac{5}{4} \pm \frac{7}{4}$

$x_1 = \frac{12}{4} = 3$

$x_2 = -\frac{2}{4} = -\frac{1}{2}$