

$$\begin{aligned}
 12abx^2 - (16a^2 - 9b^2)x - 12ab &= 4ax(3bx - 4a) + 3b(3bx - 4a) = \\
 &= (3bx - 4a)(4ax + 3b) = 0,
 \end{aligned}$$

tehát

$$x_1 = \frac{4a}{3b} \text{ és } x_2 = -\frac{3b}{4a}.$$