



$3x^2 + 11x - 4$
 $x_{1,2} = \frac{-b \pm \sqrt{d}}{2a}$
 $d = b^2 - 4ac$
 $d = 11^2 - 4 \cdot 3 \cdot (-4) = 11^2 + 4 \cdot 3 \cdot 4 = 121 + 48 = 169$
 $x_1 = \frac{-11 + 13}{2 \cdot 3} = \frac{2}{6} = \frac{1}{3}$
 $x_2 = \frac{-11 - 13}{2 \cdot 3} = \frac{-24}{6} = -4$
 $3(x - \frac{1}{3})(x + 4) = (3x - 1)(x + 4)$
 $f(x) = ax^2 + bx + c = a(x - x_1)(x - x_2)$