

Pour chaque polynôme : **a.** Calculer le discriminant
b. Calculer les racines (il y en a systématiquement deux).
c. En déduire la forme factorisée du polynôme.

a. $A(x) = x^2 - 3x - 10 = 0$ $\Delta = b^2 - 4ac$ $\Delta = \dots^2 - 4 \times \dots \times \dots$ $\Delta = \dots$ $\Delta = (\dots)^2$ b. $x_1 = \frac{-b + \sqrt{\Delta}}{2a} \quad x_2 = \frac{-b - \sqrt{\Delta}}{2a}$ $x_1 = \frac{\dots + \dots}{\dots} \quad x_2 = \frac{\dots - \dots}{\dots}$ $x_1 = \dots \quad x_2 = \dots$ c. $A(x) = \dots$	a. $B(x) = x^2 - 2x - 15 = 0$ $\Delta = b^2 - 4ac$ $\Delta = \dots^2 - 4 \times \dots \times \dots$ $\Delta = \dots$ $\Delta = (\dots)^2$ b. $x_1 = \frac{-b + \sqrt{\Delta}}{2a} \quad x_2 = \frac{-b - \sqrt{\Delta}}{2a}$ $x_1 = \frac{\dots + \dots}{\dots} \quad x_2 = \frac{\dots - \dots}{\dots}$ $x_1 = \dots \quad x_2 = \dots$ c. $B(x) = \dots$
a. $C(x) = 6x^2 - x - 1 = 0$ $\Delta = b^2 - 4ac$ $\Delta = \dots^2 - 4 \times \dots \times \dots$ $\Delta = \dots$ $\Delta = (\dots)^2$ b. $x_1 = \frac{-b + \sqrt{\Delta}}{2a} \quad x_2 = \frac{-b - \sqrt{\Delta}}{2a}$ $x_1 = \frac{\dots + \dots}{\dots} \quad x_2 = \frac{\dots - \dots}{\dots}$ $x_1 = \dots \quad x_2 = \dots$ c. $C(x) = \dots$	a. $D(x) = 6x^2 + 11x - 10 = 0$ $\Delta = b^2 - 4ac$ $\Delta = \dots^2 - 4 \times \dots \times \dots$ $\Delta = \dots$ $\Delta = (\dots)^2$ b. $x_1 = \frac{-b + \sqrt{\Delta}}{2a} \quad x_2 = \frac{-b - \sqrt{\Delta}}{2a}$ $x_1 = \frac{\dots + \dots}{\dots} \quad x_2 = \frac{\dots - \dots}{\dots}$ $x_1 = \dots \quad x_2 = \dots$ c. $D(x) = \dots$
a. $E(x) = 15x^2 - 4x - 4 = 0$ $\Delta = b^2 - 4ac$ $\Delta = \dots^2 - 4 \times \dots \times \dots$ $\Delta = \dots$ $\Delta = (\dots)^2$ b. $x_1 = \frac{-b + \sqrt{\Delta}}{2a} \quad x_2 = \frac{-b - \sqrt{\Delta}}{2a}$ $x_1 = \frac{\dots + \dots}{\dots} \quad x_2 = \frac{\dots - \dots}{\dots}$ $x_1 = \dots \quad x_2 = \dots$ c. $E(x) = \dots$	a. $F(x) = 9x^2 - 6x - 1 = 0$ $\Delta = b^2 - 4ac$ $\Delta = \dots^2 - 4 \times \dots \times \dots$ $\Delta = \dots$ $\Delta = (\dots)^2$ b. $x_1 = \frac{-b + \sqrt{\Delta}}{2a} \quad x_2 = \frac{-b - \sqrt{\Delta}}{2a}$ $x_1 = \frac{\dots + \dots}{\dots} \quad x_2 = \frac{\dots - \dots}{\dots}$ $x_1 = \dots \quad x_2 = \dots$ c. $F(x) = \dots$