

Calculer et simplifier : $A = (3 - \sqrt{5})^2$ $A = 9 - 6\sqrt{5} + 5$ $A = 14 - 6\sqrt{5}$	Calculer et simplifier : $B = (2\sqrt{5} - \sqrt{2})^2$ $B = 20 - 4\sqrt{10} + 2$ $B = 22 - 4\sqrt{10}$
Calculer et simplifier : $C = (2\sqrt{2} + \sqrt{6})^2$ $C = 8 + 4\sqrt{12} + 6$ $C = 14 + 4\sqrt{4} \times \sqrt{3}$ $C = 14 + 8\sqrt{3}$	Calculer et simplifier : $D = [(\sqrt{2} + 3) - \sqrt{5}][(\sqrt{2} + 3) + \sqrt{5}]$ $D = (\sqrt{2} + 3)^2 - 5$ $D = 2 + 6\sqrt{2} + 9 - 5$ $D = 6 + 6\sqrt{2}$
Calculer et simplifier : $E = [(\sqrt{6} + 2\sqrt{3}) - 3\sqrt{5}][(\sqrt{6} + 2\sqrt{3}) + 3\sqrt{5}]$ $E = (\sqrt{6} + 2\sqrt{3})^2 - 45$ $E = 6 + 4\sqrt{18} + 12 - 45$ $E = -27 + 4\sqrt{9} \times \sqrt{2}$ $E = -27 + 12\sqrt{2}$	Factoriser : $A(x) = 9 - x^2$ $A(x) = 3^2 - x^2$ $A(x) = (3 - x)(3 + x)$
Factoriser : $B(x) = 25x^2 - 9$ $B(x) = (5x)^2 - 3^2$ $B(x) = (5x - 3)(5x + 3)$	Factoriser : $C(x) = (2x - 3)^2 - x^2$ $C(x) = [(2x - 3) - x][(2x - 3) + x]$ $C(x) = (2x - 3 - x)(2x - 3 + x)$ $C(x) = (x - 3)(3x - 3)$
Factoriser : $D(x) = 4 - (2x + 1)^2$ $D(x) = 2^2 - (2x + 1)^2$ $D(x) = [2 - (2x + 1)][2 + (2x + 1)]$ $D(x) = (2 - 2x - 1)(2 + 2x + 1)$ $D(x) = (-2x + 1)(2x + 3)$	Factoriser : $E(x) = 16x^2 - 9 - (3x + 1)(4x - 3)$ $E(x) = (4x)^2 - 3^2 - (3x + 1)(4x - 3)$ $E(x) = (4x - 3)(4x + 3) - (3x + 1)(4x - 3)$ $E(x) = (4x - 3)[(4x + 3) - (3x + 1)]$ $E(x) = (4x - 3)(4x + 3 - 3x - 1)$ $E(x) = (4x - 3)(x + 2)$