

Exercice n°20: Calculer:

$$\begin{array}{lll}
 A = \sqrt{2} \times 3\sqrt{2}; & B = 2\sqrt{7} \times 5; & C = 3\sqrt{5} \times 4\sqrt{5}; \\
 D = -\sqrt{2} \times \sqrt{2}; & E = (\sqrt{5})^2; & F = -3 \times (-5\sqrt{2}); \\
 G = (3\sqrt{2})^2; & H = 7\sqrt{3} \times (-2\sqrt{3}); & I = (-2\sqrt{7})^2; \\
 J = (5\sqrt{2})^2; & K = 5\sqrt{5} \times (-2); & L = (-9\sqrt{11})^2; & M = (6\sqrt{3})^2 \\
 N = (\sqrt{11})^2; & O = -\sqrt{2} \times \sqrt{2}; & P = (2\sqrt{7})^2; & Q = 3\sqrt{5} \times 4\sqrt{5} \\
 R = -3 \times (-5\sqrt{2}); & S = -3\sqrt{7} \times 5\sqrt{7}; & T = 3\sqrt{12} \times (-8); & U = (4\sqrt{6})^2 \\
 V = (-5\sqrt{3})^2
 \end{array}$$

Exercice n°21:

Développer et réduire : $A = 3(6 - \sqrt{2})$; $B = -5(3\sqrt{2} + 4)$; $C = 3\sqrt{3}(5\sqrt{3} - 7)$;
 $D = \sqrt{7}(4 + \sqrt{7})$; $E = 2\sqrt{6}(5 - 2\sqrt{6})$; $F = -2\sqrt{5}(3\sqrt{5} + 2)$; $G = 7\sqrt{6}(-3 - 4\sqrt{6})$;
 $H = (2\sqrt{7} - 3)(5 - 4\sqrt{7})$; $I = (7 - 3\sqrt{2})(4 - 2\sqrt{2})$; $J = (3\sqrt{3} - 5)(6 - \sqrt{3})$;
 $L = (4\sqrt{5} - 3)(-1 - 6\sqrt{5})$

Exercice n°22:

Développer et réduire les expressions suivantes

$$\begin{array}{lll}
 A = (3 + 4\sqrt{5})^2; & B = (7\sqrt{6} - 1)^2; & C = (8 - 5\sqrt{2})(8 + 5\sqrt{2}) \\
 D = (\sqrt{2} + \sqrt{3})^2; & E = (\sqrt{7} + \sqrt{5})(\sqrt{7} - \sqrt{5}); & F = (2 + \sqrt{3})(\sqrt{3} - 5) \\
 G = (\sqrt{11} - \sqrt{2})^2; & H = (2\sqrt{6} - 5)(3 + 4\sqrt{6})
 \end{array}$$

Exercice n°23:

Développer et réduire les expressions suivantes

$$\begin{array}{lll}
 A = (3\sqrt{2} - 5)^2; & B = (4\sqrt{7} + 2)^2; & C = (2\sqrt{6} - 1)(2\sqrt{6} + 1) \\
 D = (8 - 2\sqrt{3})^2; & E = (4 + 3\sqrt{6})^2; & F = (5\sqrt{2} - 2\sqrt{3})(5\sqrt{2} + 2\sqrt{3})
 \end{array}$$
