

المسألة الثانية: اوجد اعداد A, B, C, D, M, N التي تحقق المعادلات التالية:
 $A = \sqrt{3} \times \sqrt{5} \times \sqrt{15}$
 $B = \sqrt{25 \sqrt{16} - 4 \sqrt{81}}$
 $C = \frac{1}{1} - \frac{2 - \sqrt{2}}{1}$
 $D = \frac{3 + 3^{-1}}{2 - 2^{-1}}$
 $M = (3 - \sqrt{2})^2$
 $N = (3 + \sqrt{2}) \sqrt{11 - 6\sqrt{2}}$

حل المسألة الأولى: $A = \sqrt{3} \times \sqrt{5} \times \sqrt{15}$
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المسألة الثانية: اوجد عددي F و E حيث $F = x^2 - 4$ و $E = (x-5)(x+2)$ و $x = -2$
 $F = x^2 - 4$
 $E = (x-5)(x+2)$
 $x = -2$
 $F = (-2)^2 - 4 = 0$
 $E = (-2-5)(-2+2) = (-7)(0) = 0$
 $F + E = 0 + 0 = 0$
 $E - F = 0 - 0 = 0$
 $E \times F = 0 \times 0 = 0$
 $E \div F = 0 \div 0$
 $\alpha = \frac{3}{5}$

المسألة الثالثة: اوجد عددي a و b حيث $a^2 + b^2 = 5$ و $a - b = 1$
 $a^2 + b^2 = 5$
 $a - b = 1$
 $a = b + 1$
 $(b+1)^2 + b^2 = 5$
 $b^2 + 2b + 1 + b^2 = 5$
 $2b^2 + 2b - 4 = 0$
 $b^2 + b - 2 = 0$
 $(b+2)(b-1) = 0$
 $b = -2$ و $b = 1$
 $a = -1$ و $a = 2$

المسألة الرابعة: اوجد عددي M و N حيث $M = 1$ و $N = 1$
 $M = 1$
 $N = 1$
 $M \times N = 1 \times 1 = 1$
 $M \div N = 1 \div 1 = 1$
 $M + N = 1 + 1 = 2$
 $M - N = 1 - 1 = 0$
 $M \times N = 1$
 $M \div N = 1$
 $M + N = 2$
 $M - N = 0$

المسألة الخامسة: اوجد اعداد A, B, C, D حيث $A = 1$ و $B = 1$ و $C = 1$ و $D = 1$
 $A = 1$
 $B = 1$
 $C = 1$
 $D = 1$
 $A + B + C + D = 4$
 $A \times B \times C \times D = 1$
 $A - B = 0$
 $A \div B = 1$
 $A + B = 2$
 $A - B = 0$
 $A \times B = 1$
 $A \div B = 1$
 $A + B = 2$
 $A - B = 0$