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**Nombre del trabajo: EXAMEN
TERCERA UNIDAD**

Materia: algebra

Grado: 1er cuatrimestre

Grupo: A

$$1: (-45x)(-50x^3y^3)(2x^2y) = \underline{-4500x^6y^4}$$

$$2: (-20A^3BC)(-4A^2B^2C^2)(-55ABC)(6AB^2)$$

$$R = \underline{26400A^4B^5C^3}$$

$$3: (3A^3 + 5B^2 - 4)(3A^2) = \underline{9A^5 + 15A^2B^2 - 12A^2}$$

$$4: \left(\frac{2}{3}A^3B^2 - \frac{1}{4}A^2B^3 + \frac{5}{6}AB^4 - \frac{2}{5}B^5\right)\left(-\frac{1}{2}AB^2\right)$$

$$R = \underline{-\frac{2}{6}A^4B^4 + \frac{1}{8}A^3B^5 - \frac{5}{12}A^2B^6 - \frac{2}{10}AB^7}$$

$$\left(\frac{2}{3}A^3B^2\right)\left(-\frac{1}{2}AB^2\right) = -\frac{2}{6}A^4B^4$$

$$\left(-\frac{1}{4}A^2B^3\right)\left(-\frac{1}{2}AB^2\right) = \frac{1}{8}A^3B^5$$

$$\left(\frac{5}{6}AB^4\right)\left(-\frac{1}{2}AB^2\right) = -\frac{5}{12}A^2B^6$$

$$\left(-\frac{2}{5}B^5\right)\left(-\frac{1}{2}AB^2\right) = \frac{2}{10}AB^7$$

$$5 = (3x^4 - 2x^3 - x^2 + 30x - 20)(20x^2 + 30x - 2) =$$

$$R = 60x^6 - 50x^5 - 86x^4 + 566x^3 + 502x^2 - 600x + 40$$

$$\begin{array}{r} 60x^6 - 40x^5 - 20x^4 + 600x^3 - 400x^2 \\ 90x^5 - 60x^4 - 30x^3 + 900x^2 - 600x \\ \hline -6x^4 - 4x^3 + 2x^2 - 600x + 40 \\ \hline 60x^6 - 50x^5 - 86x^4 + 566x^3 + 502x^2 - 600x + 40 \end{array}$$

$$6 = (5x^6 + 5x^4 + 30x^2 - 2x)(x^2 - x + 3) =$$

$$R = 5x^8 + 5x^7 + 13x^6 + 25x^5 - 22x^4 - 2x^3 + 35x^2 - 5x$$

$$\begin{array}{r} 5x^8 + 5x^6 + 30x^5 - 2x^3 \\ + 5x^7 - 5x^5 - 30x^4 + 2x^2 \\ + 8x^6 + 8x^4 + 38x^2 - 5x \\ \hline 5x^8 + 5x^7 + 13x^6 + 25x^5 - 22x^4 - 2x^3 + 35x^2 - 5x \end{array}$$

$$7 = (20x^4 - 2x^3 + 30x^2 + 50x + 100)(x + 2) =$$

$$R = 20x^5 + 20x^4 + 26x^3 + 82x^2 + 152x + 102$$

$$\begin{array}{r} 20x^5 - 2x^4 + 30x^3 + 50x^2 + 100x \\ + 20x^4 - 4x^3 + 32x^2 + 52x + 102 \\ \hline 20x^5 + 20x^4 + 26x^3 + 82x^2 + 152x + 102 \end{array}$$