

$$5x^2 - 3x + 2x^3 + 8x$$

$$5x^2 + 5x + 2x^3 =$$

$$2x^3 + 5x^2 + 5x + 0x^0$$

$$4x^4 + 2x^3 - 5$$

$$4x^4 + 2x^3 + 0x^2 + 0x - 5x^0$$

$$-4x^2 \Rightarrow x = -2$$

$$-4(-2)^2 = -4 \cdot (+4) = -16$$

$$\boxed{3x^2 - 5x + 7} \quad \Rightarrow x = 2$$

$$\Rightarrow x = -3$$

$$3(-3)^2 - 5(-3) + 7 = 27 + 15 + 7 = \boxed{}$$

$$3(2)^2 - 5 \cdot 2 + 7 = 12 - 10 + 7 = 9$$

$$A(x) =$$

$$5x^4 + 3x^2 - 5x + 7$$

$$A(x) + B(x) =$$

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

$$\begin{array}{r} 5x^4 + 0x^3 + 3x^2 - 5x + 7 + \\ -3x^4 - 4x^3 + 2x^2 - 5x - 4 = \end{array}$$

$$2x^4 - 4x^3 + 5x^2 - 10x + 3$$

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

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

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

$$B(x) - T(x) =$$

$$T(x) = 4x^3 - 5x^2 - 4x - 7$$

$$\begin{array}{r} B(x) \quad -3x^4 + 0x^3 + 0x^2 + 2x - 5 \quad + \\ -T(x) \quad 0x^4 - 4x^3 + 5x^2 + 4x + 7 \quad = \\ \hline -3x^4 - 4x^3 + 5x^2 + 6x + 2 \end{array}$$

$$- \int x a b^{(4)}$$