

$$(h - g)(x) = h(x) - g(x) = -6x^2 + 9x + 4 - (8x^3 - 8x^2 - 8x)$$

$$= -6x^2 + 9x + 4 - 8x^3 + 8x^2 + 8x = -8x^3 - 6x^2 + 8x^2 + 9x + 8x + 4$$

$$= -8x^3 + 2x^2 + 17x + 4$$