

$$(g-h)(x) = g(x) - h(x) = 10x^3 - 8x - 9 - (-4x^2 + 6x + 2)$$

$$= 10x^3 - 8x - 9 + 4x^2 - 6x - 2 = 10x^3 + 4x^2 - 8x - 6x - 9 - 2$$

$$= 10x^3 + 4x^2 - 14x - 11$$