Dennis Kuzminer CSCI-UA 310-001 PS4

9.
$$gh = ([2]x^2 + [3]x + [4])([3]x^2 + [2]x + [1]) \rightarrow$$

$$[2][3]x^4 + [2][2]x^3 + [2][1]x^2 + [3][3]x^3 + [3][2]x^2 + [3][1]x + [4][3]x^2 + [2][4]x + [4][1] \rightarrow$$

$$[1]x^4 + [4]x^3 + [2]x^2 + [4]x^3 + [1]x^2 + [3]x + [2]x^2 + [3]x + [4] \rightarrow$$

$$[1]x^4 + [3]x^3 + [0]x^2 + [1]x + [4] \rightarrow$$