CS5250 Advanced Operating Systems

Pop Quiz 3

Name:	_Ding Fan	
Student Number:	A0248373X	

Write the snippet of x86-64 assembly code that will compute the polynomial:

$$a = 3x^3 - 4x^2 + 5x - 6$$

where "a" is rand x is in the memory location pointed to by rand x and x are 64-bit integers. You may assume that all registers other than rand x and rand x are available for your use. The final answer is to be left in rand x.

Solution:

$$a = 3x^{3} - 4x^{2} + 5x - 6$$

$$= x [3x^{2} - 4x + 5] - 6$$

$$= x [x (3x - 4) + 5] - 6$$

Code: