King Fahd University of Petroleum and Minerals Prep-Year Math Program Math 001 - Term 061 Recitation Hour (P3 & P4)

Question1

Given the polynomial $(2x-1)(2-x) + (3x-1)^3$

- a. Write the given polynomial in the standard form.
- b. Complete the following table:

The leading coefficient is	The constant term is	The coefficient of is x^2

Question2

Factor each of the following trinomial a) $x^2 - 10x - 24$ b) $51x^2 - 5x - 4$

Question3

Factor completely $a) x^{6} + 63x^{3} - 64$ $b) 6x(3x+1)^{3} - (3x+1)^{4}$

Question4

Factor by grouping *a*) $9x^2 + 3x - y - y^2$ *b*) $36x^2 - y^2 - 4yz - 4z^2$

Question5

Find all positive values of k such that $4x^2 - 12xy + ky^2$ is a perfect-square trinomial.