PING YI SECONDARY SCHOOL

Perseverance Yields Success

Name Hanya Class 3I2

Subject Maths. practice 26 2a. No. 11 Date 6jan2009

45. $(w+3)(w-1)^2$

$= (w+3)(w-1)(w-1)$

$= (w+3)(w^2-w-w+1)$

$= w(w^2-2w+1)+3(w^2-2w+1)$

$= w^3-2w^2+w+3w^2-6w+3$

$= w^3-2w^2+3w^2+w-6w+3$

$= w^3+w^2-5w+3$ #

46. $(\frac{1}{2}x+2)^2(-1-2x)$

$= (\frac{1}{2}x+2)(\frac{1}{2}x+2)(-1-2x)$

$= (\frac{1}{4}x^2+x+x+4)(-1-2x)$

$= (\frac{1}{4}x^2+2x+4)(-1-2x)$

$= -1(\frac{1}{4}x^2+2x+4)-2x(\frac{1}{4}x^2+2x+4)$

$= -\frac{1}{4}x^2-2x-4-\frac{1}{2}x^3-4x^2-8x$

$= -\frac{1}{2}x^3-\frac{1}{4}x^2-2x-4-4x^2-8x$

$= -\frac{1}{2}x^3-\frac{1}{4}x^2-4x^2-2x-8x-4$

$= -\frac{1}{2}x^3-\frac{17}{4}x^2-10x-4$

$= -\frac{1}{2}x^3-4\frac{1}{4}x^2-10x-4$ #