ALGEBRA INFORMAL TEST 1:

Unit 6 – Unit 9:

QUESTION 1:

Consider the following expression:

$$4x + 2x^2 - 14 - x^3$$

1.1 Rewrite this expression in ascending powers of x. (1)
1.2 What the degree of this expression? (1)
1.3 What is the coefficient of x^3? (1)
1.4 What is the value of the constant term? (1)
1.5 Find the value of the expression if $x = -1$ (2)

1.2 Simplify the following expression:

$\frac{12a-6b}{3}$ (1)

Total: 7

QUESTION 2:

Simplify the following equations:

2.1) $x - 3 = 6$ (2) 2.2) $5 + x = 10$ (2)

2.3) $4 - x = 12$ (2) 2.4) $2x - 3 = 7$ (2)

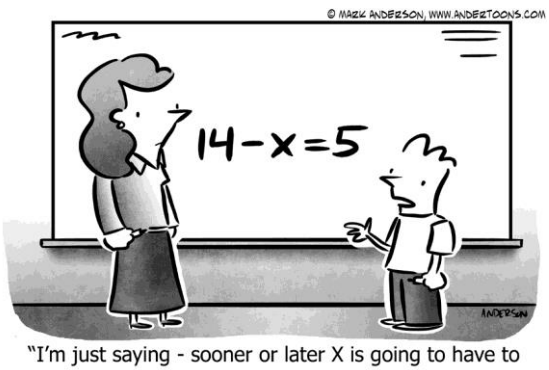
2.5) $6x = 36$ (1) 2.6) $\frac{8}{x} = 2$ (1)

2.7) $\frac{20}{x} + 5 = 15$ (3) 2.8) $3(3x + 4) = 6$ (3)

2.9) $-4x + 3 = -9 - 7x$ (3) 2.10) $3x + 5(-9 - 5x) = -3x + 2x$ (4)

Total:23

Grand total: 30 Marks



"I'm just saying - sooner or later X is going to have to solve these things for itself."