

Integrated Math 10 – Unit 1 Sample Assessment – Aug 16/17

1. Solve $5(x - 5) + 1 = \frac{1}{2}(4x + 6)$.

K,C (4,2 marks)

2. You are given 2 points: $A(3, -1)$ and $B(-5, 3)$.

a. Determine the slope of the line passing through points A and B .

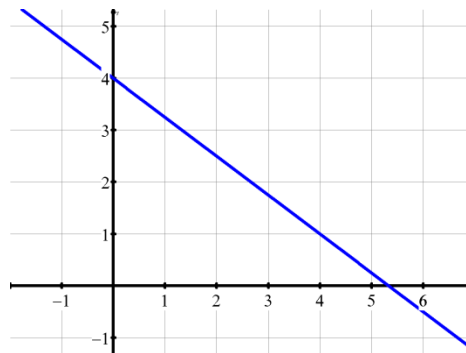
K (3 marks)

b. Determine the equation of the line passing through these 2 points. Write the equation in BOTH slope-intercept form and in standard/general form.

K,C (6,2 marks)

3. Determine the equation of the line graphed below:

A (4 marks)



4. At the start of the 2011/12 school year, the HS school population was 753 students. Five years ago, (at the start of the 2006/7 school year) was 508 students.

a. Determine the annual rate of change of HS student population at ISM.

A,C (2,1)

b. Mr B. and Mr D. need to predict the number of students that the HS at ISM will have in 2015. Present a mathematical method for predicting the HS school population for the start of the 2015/2016 school year.

T,C (4,1 marks)

c. Explain why your population prediction is/is not reasonable.

T (1 marks)

Marks by Criteria				Totals
K	A	C	T	
/13	/6	/6	/5	/30