

Lesson 2 – Review of Linear Relations

A. Lesson Objectives

- Introduce the Mark criteria in this course
- Review key skills/concepts of Linear Equations and Linear Relations
- Review GDC skills associated with Linear Equations and Linear Relations

B. Mark Criteria (see [link to website here](#))

Category	Clarification/Details
Knowledge and Understanding	Procedural Knowledge & Conceptual Understanding
Application	Selecting Tools and Strategies, Connecting
Thinking, Inquiry, Problem Solving	Problem Solving, Reasoning and Proving, Reflecting
Communication	Communicating, Representing

C. Skills Review – Linear Equations

a. Solve $5(x-5)+1 = \frac{1}{2}(4x+6)$. Verify your solution. **K,C**

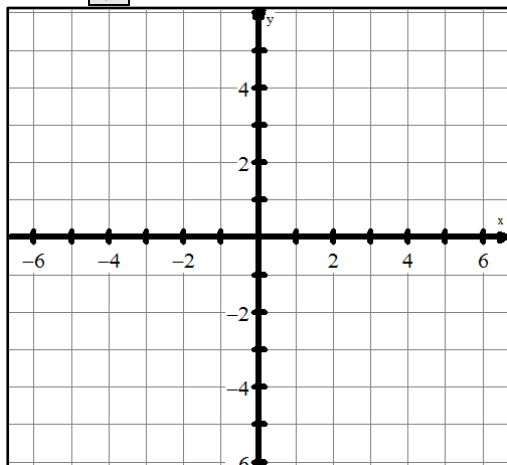
b. Given the equation $4x-5 = a(x+2)+2x$, determine the value(s) for a such that there is NO solution for x . **T**

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D. Skills Review – Linear Relations

1. Find the slope of the line segment through the points A(-2,5) and B(-5,-3). **K**
2. Determine the annual growth rate of Manila's population if the population in 2007 was 11,500,000 and is estimated to be 16,300,000 in 2011. **A**

3. Graph the linear equation $3x - 4y = 12$ on the grid provided. **K,C**



4. To convert temperature from °F to °C, we use the formula $C = \frac{5}{9}F + 32$. How would you rearrange the formula to convert from °C to °F? **A**

5. Determine the equation of the line through the points A(3,3) and B(6,-6). **A**
6. Revisit Q2. Determine the DAILY growth rate of Manila's population. What ASSUMPTIONS are you making? **T**