

Name: _____

Date: _____

Homework sheet: Alg2H

1. Page 28, questions:

33. $7y - 1 = 23 - 5y$

36. $8 - 5x = x - 16$

2. Page 29, questions:

Which of the following are identities:

55. $3(x - 4) = 3x - 4$

57. $7(x - 3) \cdot \frac{1}{7} = x - 3$

3. (Book1 16**) On a road map of Uganda, the scale is 1 : 1, 500, 000. The distance on the map from Kampala to Ft. Portal is 17 cm. What is the real world distance in km between these two cities?

4. (Book1 13**) Pick any number. Add 4 to it and then double your answer. Now subtract 6 from that result and divide your new answer by 2. Write down your answer. Repeat these steps with another number. Continue with a few more numbers, comparing your final answer with your original number. Is there a pattern to your answers?

5. (Book1 33**) Before you are able to take a bite of your new chocolate bar, a friend comes along and takes $\frac{1}{4}$ of the bar. Then another friend comes along and you give this person $\frac{1}{3}$ of what you have left. Make a diagram that shows the part of the bar left for you to eat.

6. (Book1 34**) Later you have another chocolate bar. This time, after you give away $\frac{1}{3}$ of the bar, a friend breaks off $\frac{3}{4}$ of the remaining piece. What part of the original chocolate bar do you have left? Answer this question by drawing a diagram.