Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_

Homework sheet: Alg2H

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| 1. Page 28, questions:   33.  36. | 1. Page 29, questions:   Which of the following are identities:  55.  57. |

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| 1. (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? |
| 1. (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? |
| 1. (Book1 33\*\*) Before you are able to take a bite of your new chocolate bar, a friend comes along and takes 1/4 of the bar. Then another friend comes along and you give this person 1/3 of what you have left. Make a diagram that shows the part of the bar left for you to eat. |
| 1. (Book1 34\*\*) Later you have another chocolate bar. This time, after you give away 1/3 of the bar, a friend breaks off 3/4 of the remaining piece. What part of the original chocolate bar do you have left? Answer this question by drawing a diagram. |