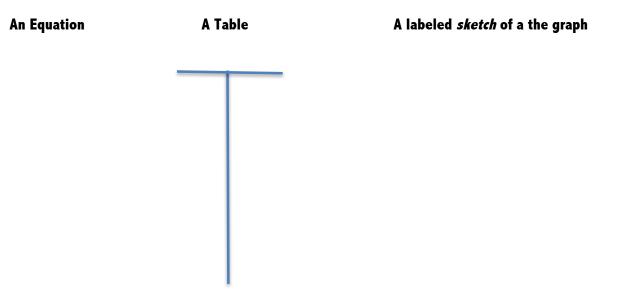
## Assignment 1.2.4 Name \_\_\_\_\_ Per\_\_\_

A. Find the equation of the line that passes between the points (3, 32) *and* (33, 52) *(keep values exact and show work)* 

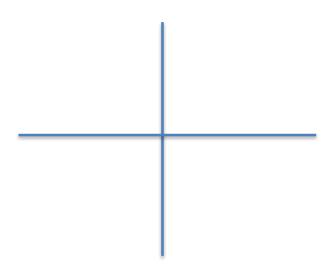
B. Factor, completely, the following four expressions (*into 2 or more factors*):

- *C.* Solve the quadratic equation (3x 10)(5x + 70) = 0 hopefully the quick way! *The other ways will take you until Valentines Day.*
- D. Johnny Depp got a pet snake for his birthday. It was only 10 cm long. However, it grew around 2.5 cm per week. Create three representations of a function for which the inputs are the #weeks since his birthday and the outputs are the length of the snake.



E. In this chapter you were given the 9 Function Investigation Questions to use to analyze functions. You will use them now.

Use the 9 Function Investigation Questions to analyze  $f(x) = 2\sqrt{x+2} - 6$  (be sure to make a sketch)



G. You do <u>**not**</u> have to solve the equations below.

You should be able to solve all of them, however, for the upcoming Ch. 1 test. If you need practice with some or all, then do them for extra practice. Answers will be provided in class. (you should be able to show your steps clearly as you solve them.)