Instructions: Show all work. Use exact answers, unless specifically asked to round.

1. You have \$50,000 to invest, and two funds that you'd like to invest in. Your uncle tells you about a "sure thing" that promised to yield 14% interest. The bonds your mom recommends yields 6% interest. Because of college financial-aid implications, you don't think you can afford to earn more than \$4,500 in interest income this year. How much should you put in each fund?

X = Save thing \$ 50,000 - X = bonds

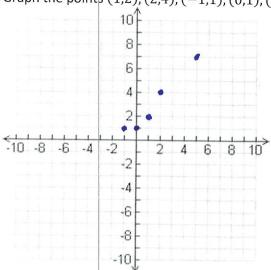
X=18,750 in "Sweetling" bondo = 31,250

2. Solve $5x + 7 \le 3(x + 4)$. Write the solution in interval notation.

 $5X+7 \le 3X+12$ -3x-7 - 3x - 7 $2X \le \frac{5}{2}$ $X \le \frac{5}{2}$

(-0, 5/2]

3. Graph the points (1,2), (2,4), (-1,1), (0,1), (5,7) on the graph below.



4. What is the name of the type of graph you just drew?

Scatterplot