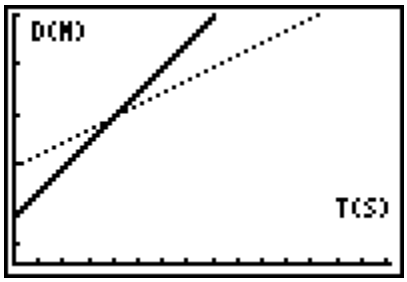
Activity 7: Walk the Line for TI Navigator

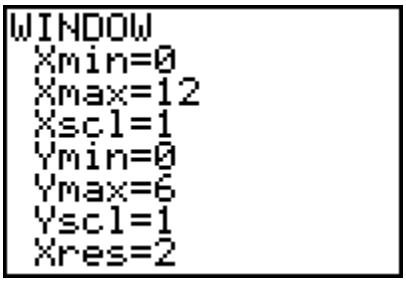
Question 1: Given the graph below, pick the equation that best represents the dashed line, if the solid line equation is y = 1x +1.

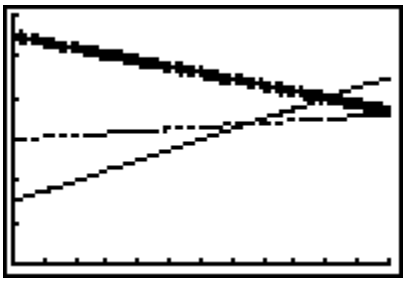


The dashed line equation is more than likely:

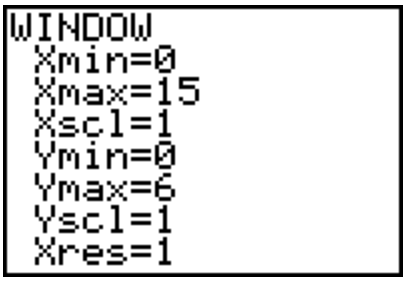
A. y = 4x + 0.5
B. y = -2x +2
C. y = x
D. y = 0.5x +2

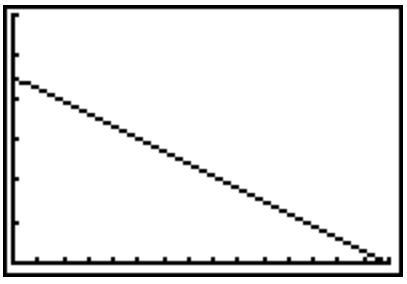
Question 2: Using the lists from the group file ACT07Q2, set up a plot for each pair of TIME and DIST (DIST1, DIST2, and DIST3). Get a Linear Regression for each line. Place the equations in Y1, Y2, and Y3 respectively for the different Distance lists. Use the window below, and the plots will display as show. Check the match of data and equation.





Question 3: Given the following graph on the indicated window, guess the liner function that bets fits the situation. Place your answer in Y7.





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Given the following linear equations, answer the questions.

Y1 = X
Y2 = 2X + 3
Y3 = -4X +1
Y4 = 1X +2

Question 4: Which of the above has the largest y-Intercept? Store the number 1, 2, 3, or 4 in the variable S to demonstrate your selection (i.e. If you think Y7 is the answer, store 7 in S like this: 7 [STO▸] [ALPHA] S).

Question 5: Which of the above has the smallest y-Intercept? Store the number 1, 2, 3, or 4 in the variable T to demonstrate your selection.

Question 6: Which of the above looks the steepest? Store the number 1, 2, 3, or 4 in the variable U to demonstrate your selection.