Writing Equations WE5 Writing Linear Equations Given 2 Points Name Activity Date 1. Blood pressure tends to increase with age. Suppose the normal blood pressure of a 20 year old is 120 and that of a 50 year old is 135. Write the equation of the line. (Age, Bloodpressural a. What are the independent and dependent variables? Independent: 196 Wrs) Dependent: Blood pressure b. Identify two points on the line that represents this situation. (20,120) (50,135)c. Identify the slope. What does it represent in this situation? d. Write the equation of the line. e. Identify the y-intercept. What does it represent in this situation? (0,110) Anewborn has a bloodpres f. What is the blood pressure of a 30 year old? $\chi = 3$ はまなみりり bloodpresson 125 4= \$(30) +110 4 = 125 g. How old is a person with blood pressure of 140? \checkmark

h. What are reasonable domain and range values for this situation?

D: TR30 R: TR3110

2. A man whose foot is 12 inches long wears a shoe size 12. A man whose foot is 10 inches long wears a size 6. Write an equation of the line.

point ()	slope =	yint =
point ()	equation	

Find the slope and write the equation for the line through the given two points in point-slope form. Convert to slope-intercept form.



