Learning Outcomes Covered:

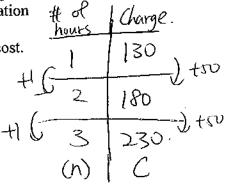
4B: I can graph a linear relation by using a TOV.

4C: I can understand that in a linear relation, a constant change in "x" produces a constant change in "y".

CONTENT Assessment Questions:

1. A computer repair company charges \$80 for a service call, plus \$50 an hour for labour.

| r |
|--------------------------------------|
| Create a table to show the relation |
| between the time in hours for |
| the service call and the total cost. |
| |



| b) | Cor | nplete | the | following | statement |
|----|-----|--------|-----|-----------|-----------|

| A constant change of units in the # of hours ("x"-value) produc | | | 1 D J | | Dem | Complete the follow |
|--|-----------------|-------------|-------------|--------------|-----|----------------------|
| A constant change of the units if the first flowers (is ready product | nue) produces a | ("x"-value) | f of hours. | units in the | | A constant change of |
| | _ ("y"-value). | | | | | • . |

c) Let n represent the time in hours for the service call and C represent the total cost in dollars.

Write an equation that relates
$$C$$
 and n .

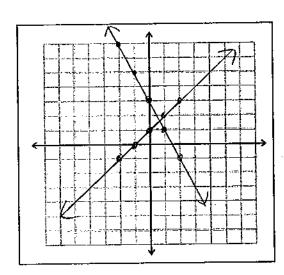
d) How much will a 7-h service call cost?

2. Create a table of values for each linear relation and then graph the relation.

Use values of x from -2 to 2.

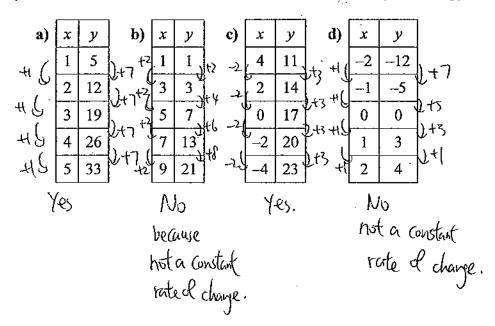
a)
$$y=x+1$$
 $7 | 3$
 $-2 | -1$
 $0 | 1$
 $1 | 2$

b)
$$y = 3 - 2x$$
 $7 - 2 7$
 $- 3 - 3$



CURRICULAR COMPETENCIES Questions:

1. For each table of values below, does it represent a linear relation? If the relation is not linear, explain how you know. If the relation is linear, describe it. (RA, CmRp)



2. Each table of values represents a linear relation. Complete each table. Give reasons. (US)

| a) | х. | y | b) | х | у | c) | х | у | |
|----|----|-----|--------------|---|------------|-----|-----------|-----------------|------|
| • | 1 | 6 | | 1 | 7 | | 4 | 9 | 14 |
| | 2 | 2 | | 3 | 3 | -tL | 2 | 14 | 13 |
| | 3 | 14 | V () | 5 | -1 |) (| 0 | 19 ^Q | l t5 |
| | 4 | 18 | Jt4 | 7 | -5 | L-4 | <u>-4</u> | 24 | |
| | 5 | 22. | Lt¥ | 9 | <u>-</u> 9 | | -12 | 29 | |

ONGOING LEARNING ACTIVITIES:

CORE: Page 170: Curricular Competencies: 5, 9, 14

Content: 7bc, 10ace, 11, 13, 15

ADVANCED: Page 173: 17, 18