

Section 9.2 Extra Practice

1. a) Graph the ordered pairs in the table of values.

| | | | | | | |
|----------|---|---|----|----|----|----|
| x | 0 | 1 | 2 | 3 | 4 | 5 |
| y | 0 | 5 | 10 | 15 | 20 | 25 |

- b) What is the difference in value for consecutive x -values? What is the difference in value for consecutive y -values?
- c) What is an expression for y in terms of x ?

2. For each table of values, tell whether the relationship is linear. Explain how you know.

a)

| | | | | | |
|----------|---|---|----|----|----|
| s | 2 | 3 | 4 | 5 | 6 |
| t | 5 | 9 | 15 | 19 | 25 |

b)

| | |
|----------|----------|
| h | i |
| 7 | -6 |
| 4 | -3 |
| 1 | 0 |

3. For the following table of values, graph the ordered pairs. Does the relationship appear to be linear? Explain.

| | | | | |
|----------|---|---|----|----|
| u | 0 | 2 | 3 | 6 |
| v | 3 | 9 | 12 | 21 |

4. Mahesha has \$100 altogether, in \$10 bills and \$5 bills.

- a) Copy and fill in the table of values to show at least five possible combinations of \$10 bills and \$5 bills that Mahesha may have. Add columns to the table if necessary.

| | | | | | |
|-----------------------------|--|--|--|--|--|
| Number of \$10 Bills | | | | | |
| Number of \$5 Bills | | | | | |

- b) Draw a graph of the data. Does the relationship appear linear? Explain.
- c) Is it possible for Mahesha to have 19 \$5 bills? Explain.