

Blank Practice 6.2 pgs 74 -75 notes

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Section 6.2 Extra Practice

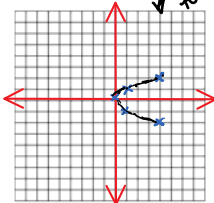
1. Convert each relation from its current representation to a set of ordered pairs and to a graph.

not linear

x	y
4	-2
1	-1
0	0
1	1
4	2

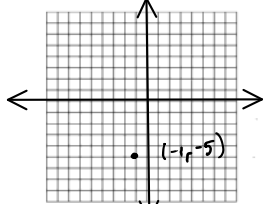
$\Delta x = -3$
 $\Delta x = -1$
 $\Delta x = 1$
 $\Delta x = 3$

$\Delta y = -1$
 $\Delta y = 1$



complete table of values
graph
complete
PTS

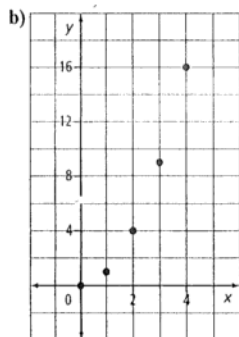
x	y
-1	-5
0	-3
1	-1
2	1



b) $y = 2x - 3$

2. Convert each relation from its current representation to a table of values and to words.

- a) ... (-1, -2), (0, 0), (1, 2), (2, 4), ...



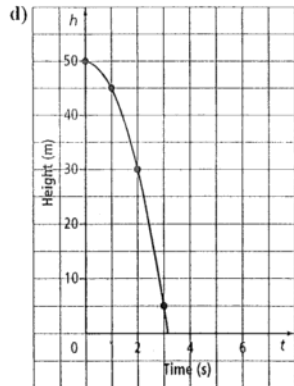
3. Determine whether each relation is linear or non-linear. Explain your decision.

a) $y = \frac{9}{5}x + 32$

b)

x	y
1	1
2	1
3	2
4	3
5	5

- c) (-5, 0), (-2, 1), (1, 2), (4, 3), (7, 4)

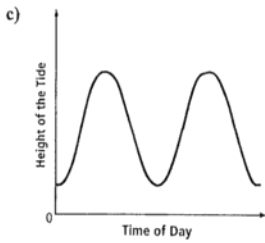


4. For each relation, state the dependent variable and the independent variable.

a) $V = \frac{4}{3}\pi r^3$

b)

Age of a Person (years)	Height (cm)
2	87
3	96
4	104
5	110



5. The table of values shows the cost of movie tickets at a local theatre. cost \$/ticket

$= \Delta t$ (ticket) ←

Number of Tickets t	Cost (\$) C
1	12
2	24
3	36
4	48

→ $\Delta C = \$12$

a) Is this linear or non-linear relationship?
* Explain how you know.

b) Assign a variable to represent each quantity in the relation. Which variable is the dependent variable and which is the independent variable?

Dependent variable \rightarrow ie. cost
should be on y axis

c) Are the data discrete or continuous?
* Explain how you know.

d) Graph the data. plot the pins. Do not connect.

6. A white-tailed deer can sprint up to 48 km/h. One deer is walking at 8 km/h. Consider the relationship between the total distance, in kilometres, travelled by this deer and time, in hours. let $d =$ distance (km)
 $t =$ time (h)

a) Assign a variable to represent each quantity in the relation. Identify the dependent variable and the independent variable.

depend variable is
independent variable is

b) Assume the deer walks for 3 h without stopping. Create a table of values for this relation.

Eqn $\rightarrow d = 8t$
Based on words

t	d
0	0

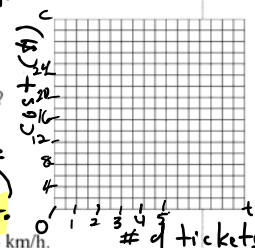
c) Graph the relation.

* Pay attention to where t vs d goes \leftrightarrow or \downarrow
d) Is the relation linear or non-linear?
Explain.

dependent vs independent variable

e) Is the relation continuous or discrete?
Explain.

Title: _____



* Graph should use grid space so choose scale with this in mind.
must go up by even interval & be spaced equally

* Define variables