

14) (Page 34)

Fri 26 Oct 2018

Relation between tonnes of Carrots & amount of fertilizer used

$$y = f(x) = -0.53x^2 + 1.38x + 0.14$$

f **models** the effect of $\neq$ amounts of fertilizer, x (100 kg hectare)
on the yield of carrots (tonnes), y .

a) Evaluate $f(x)$

Fertilizer x (100 kg <u>ha</u>)	0	0.25	0.5
Yield, $y(x)$ (tonnes)	0.14	0.45	$0.6975 \approx \underline{\underline{0.70}}$

How do we round numbers?

0.51815

0.5182

0.518

0.52

0.5

1

If The problem
doesn't say anything
give your answers
with just 2 decimals.

HOMEWORK for totals

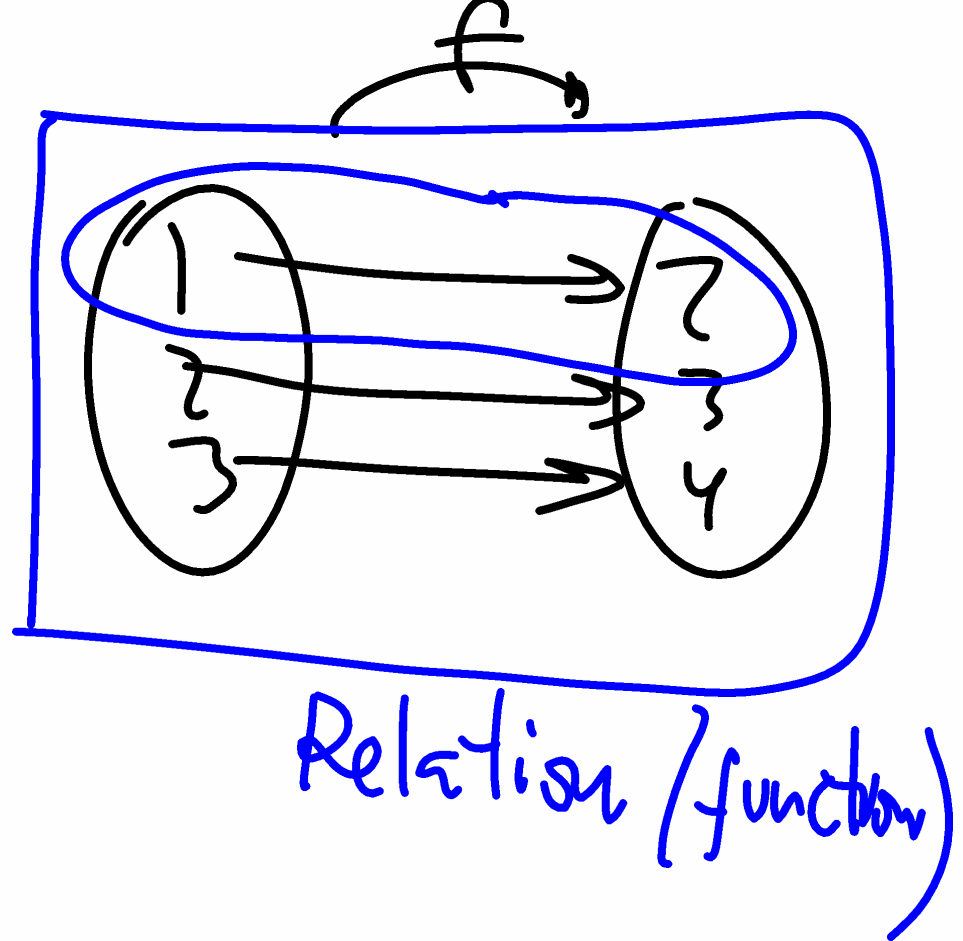
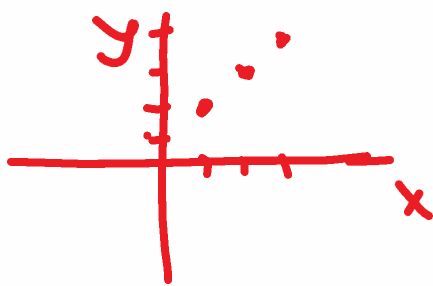
Exer. 2 page 37

$$2) f = \{ (1, 2), (2, 3), (3, 4) \}$$

$$a) \text{ Domain}(f) = \{1, 2, 3\}$$

$$\text{Range}(f) = \{2, 3, 4\}$$

Yes, it is a function because each element of the domain has 1 unique arrow



24) $g = \{(1, 2), (2, 1), (3, 3), (3, 0), (3, 4)\}$ Relation

$$\text{Domain}(g) = \{1, 2, 3\}$$

$$\text{Range}(g) = \{2, 1, 3, 0, 4\}$$

No, it's not a function because element 2 of the domain has 2 arrows coming out.

ASSIGNMENT Due: Tue 30 Oct 2018

You can find the PDF on Quickschools

and on this server, filename:

Assignment-30Oct2018.pdf