

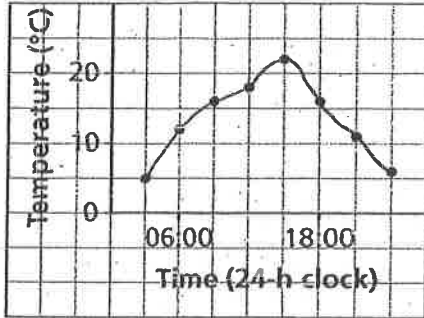
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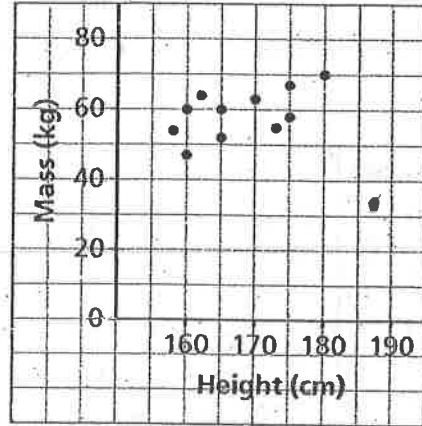
Chapter 5 Quiz (5.5 - 5.7) NO CALCULATOR

1) Which of these graphs represents a function?

a) Outside Temperature over a 24-h Period



b) Masses of Students against Height

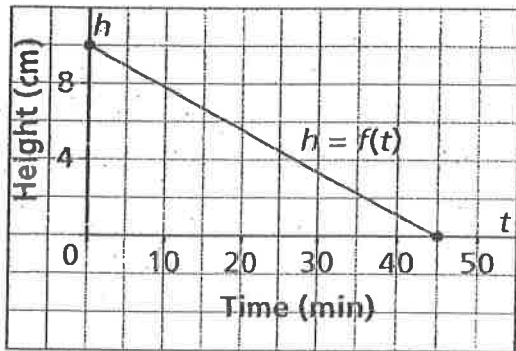


Answer: a

Is this function continuous or discrete? continuous

2) This graph shows how the height of a burning candle changes with time.

Height of a Burning Candle



a) What are the coordinates of the vertical intercept? (0, 10)
What are the coordinates of the horizontal intercept? (45, 0)

b) What are the domain and range of this function?

Domain: $0 \leq t \leq 45$
Range: $0 \leq h \leq 10$

3) Which of the following equations represent linear relations?

i) $x = -2$

ii) $y = x + 25$

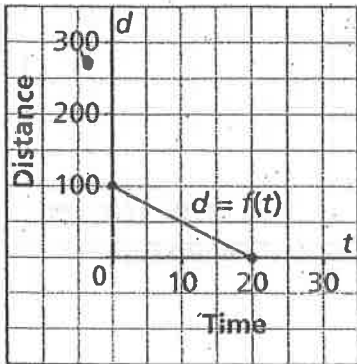
iii) $y = 25$

iv) $y = x^2 + 25$

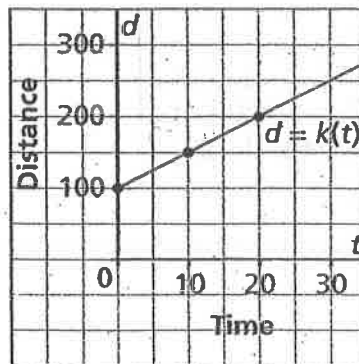
Answer: i, ii, iii

4) Which graph has a rate of change of -5 and a vertical intercept of 100?

a)



b)



A or B? A

5) Which table of values ^{below} represents a linear relation?

A or B? B

How do you know?

constant rate of change in both vars! 0.05

P.O.C

a) The relation between the number of bacteria in a culture, n , and time, t minutes.

t	n
0	1
20	2
40	4
60	8
80	16
100	32

b) The relation between the amount of goods and services tax charged, T dollars, and the amount of the purchase, A dollars

A	T
60	3
120	6
180	9
240	12
300	15