

5. Match the function expressed in words with an equation and a graph.

Average cost of producing x items.

Equation IV

Graph e

The oxygen content in a lake after dumping in fertilizer as a function of time.

Equation V

Graph b

The amount of a drug (given by injection) in a body as a function of time.

Equation i

Graph d

The number of people purchasing a trendy new product as a function of time.

Equation ii

Graph a

The number of people getting a particular disease during an epidemic as a function of time.

Equation iii

Graph c

(i) $y = \frac{25x+2}{5x^3+1}$

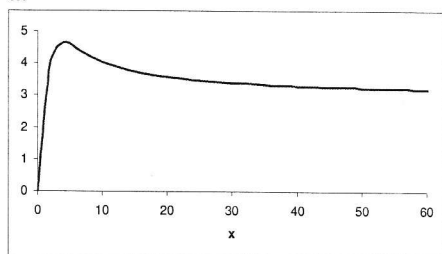
(ii) $y = \frac{25x+6x^2}{2x^2+10}$

(iii) $y = \frac{4x^2}{x^2+9}$

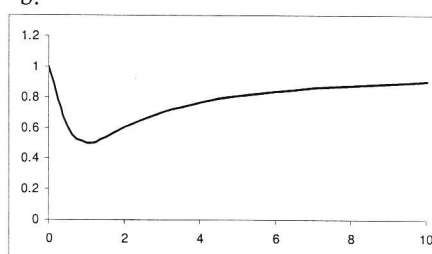
(iv) $y = \frac{20x+1000}{x}$

(v) $y = \frac{x^2-x+1}{x^2+1}$

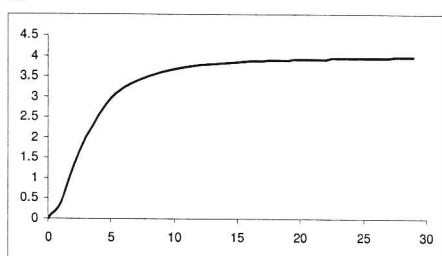
a.



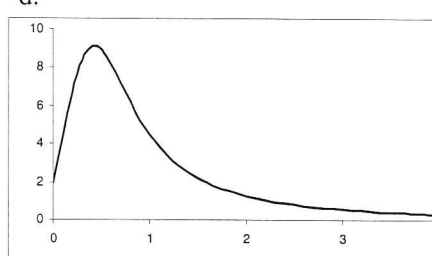
b.



c.



d.



e.

