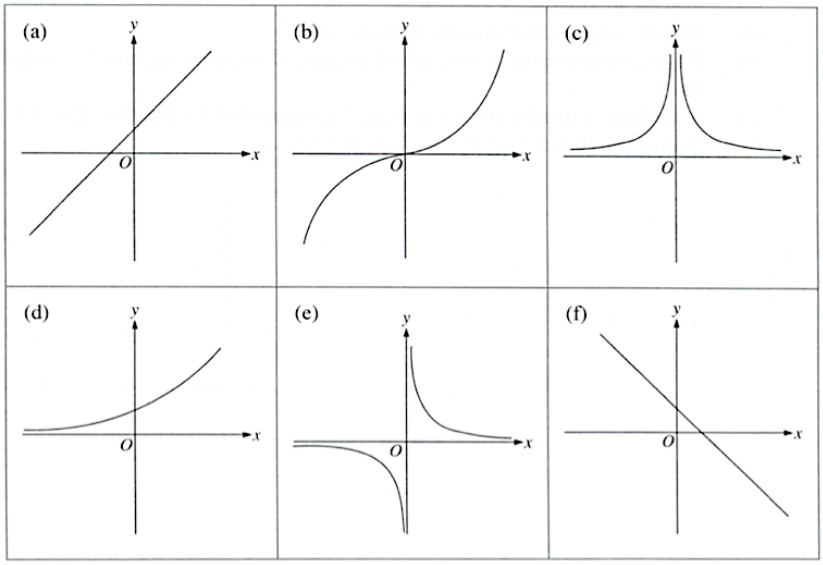
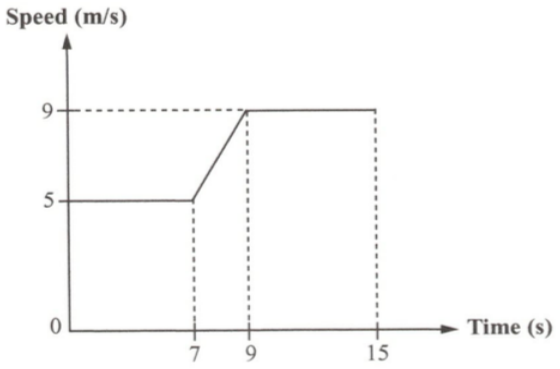
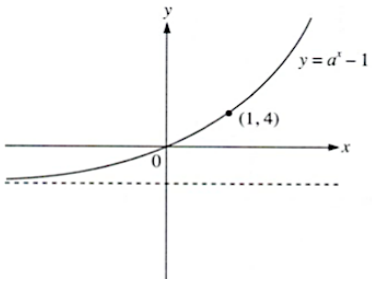
Must Know Questions To Ace Graphs of Functions & Graphical Solutions

1.	The graph of $y = a^x - 1$ passes through the point (1 , 4). Sketch the graph of $y = a^x - 1$, marking the point (1 , 4) on the graph.
2.	Match the graphs to the correct equations.  A: $y = \frac{1}{x}$ B: $y = x + 1$ C: $y = x^3$ D: $y = 1 - x$ E: $y = 2^x$ F: $y = \frac{1}{x^2}$
3.	The diagram shows the speed-time graph of a particle. a) Find the total distance travelled by the particle. b) Sketch the distance-time graph of the particle over the 15 second period. 

Answer Key:

1.



2. a) B

   b) C

   c) F

   d) E

   e) A

   f) D

3. a) 103 m

   b)