

Mathematics

(www.tiwariacademy.net)

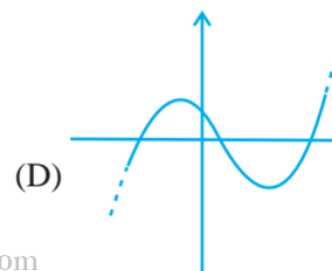
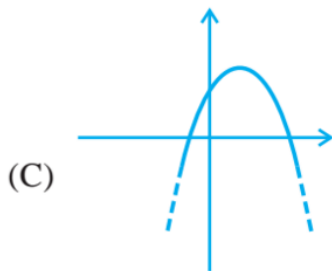
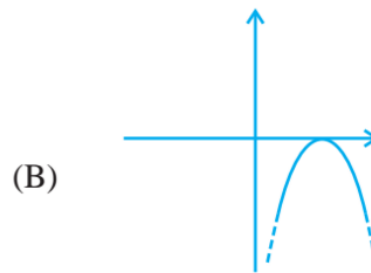
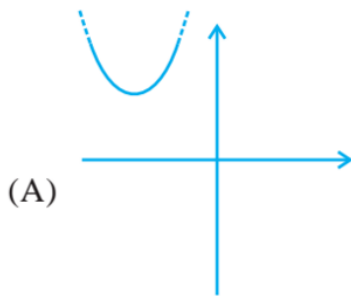
(Chapter – 2) (Polynomials)(Exemplar Problems)

(Class – X)

Exercise 2.1

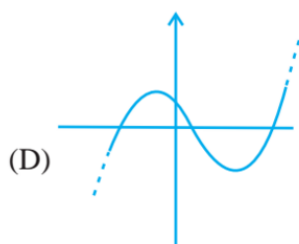
Question 11:

Which of the following is not the graph of quadratic polynomial?



www.tiwariacademy.com

Answer 11:



Solution:

For any quadratic polynomial $ax^2 + bx + c$, $a \neq 0$, the graph of the corresponding equation $y = ax^2 + bx + c$, has one of the two shapes either open upwards like \cup (parabolic shape) or open downwards like \cap (parabolic shape) depending on whether $a > 0$ or $a < 0$. These curves are called parabolas. So, option (D) cannot be possible.



Mathematics

(www.tiwariacademy.net)

(Chapter – 2) (Polynomials)(Exemplar Problems)

(Class – X)

Also, the curve of a quadratic polynomial crosses the x-axis on at most two points but in option (D) the curve crosses the x-axis on the three points, so it does not represent the quadratic polynomial.

