

1. Consider the statement: “For an integer  $n$ , if  $n^3 - 1$  is even, then  $n$  is odd.” The contrapositive statement of this statement is:

[Main Sep. 06, 2020 (II)]

- (a) For an integer  $n$ , if  $n$  is even, then  $n^3 - 1$  is odd.
- (b) For an integer  $n$ , if  $n^3 - 1$  is not even, then  $n$  is not odd.
- (c) For an integer  $n$ , if  $n$  is even, then  $n^3 - 1$  is even.
- (d) For an integer  $n$ , if  $n$  is odd, then  $n^3 - 1$  is even.

1. (a) Contrapositive statement will be

“For an integer  $n$ , if  $n$  is not odd then  $n^3 - 1$  is not even”.

or

“For an integer  $n$ , if  $n$  is even then  $n^3 - 1$  is odd”.