Proof – Q6 [Problem/E](4/10/21)

Let A be "$x = 3$" , and let B be "$x^2 = 9$ "

Which of the following statements are true?

A is a necessary but not sufficient condition for B

A is a sufficient but not necessary condition for B

B is a necessary but not sufficient condition for A

B is a sufficient but not necessary condition for A

A (is true) only if B (is true)

B (is true) only if A (is true)

Solution

A is a necessary but not sufficient condition for B **[false]**

A is a sufficient but not necessary condition for B **[true]**

B is a necessary but not sufficient condition for A **[true]**

B is a sufficient but not necessary condition for A **[false]**

A (is true) only if B (is true) **[true]**

B (is true) only if A (is true) **[false]**