Answer on Question #79104 - Math - Linear Algebra

$x > 0$ is necessary for $x + 2 > 1$
Is the statement true or false?
Give justification in support of your answer.

Solution.
$x + 2 > 1 \Rightarrow x > -1$. The set of values x can take includes the set of positive numbers, therefore $x > 0$ is *not* necessary for $x + 2 > 1$. For example, take $x = -0.5$:

$$-0.5 + 2 = 1.5 > 1, \text{but} - 0.5 < 0$$

Answer: false