# Answer on Question \#70882 - Math - Algebra <br> <br> Question 

 <br> <br> Question}

Which of the following expresses the possible number of positive real solutions for the polynomial equation shown below?

$$
x^{3}-4 x^{2}-7 x+28=0
$$

## Solution

Construct a row of coefficients of this polynomial: $\{+1 ;-4 ;-7 ; 28\}$. According to Descartes' theorem of Signs, we need to count the number of sign changes.

We get two sign changes, namely, + - and - +.
Therefore, the polynomial has two or none positive roots.
Answer: two or zero positive roots.

