## Answer on Question #80316 - Math - Linear Algebra

## Question

if the matrix [ 0.6-5x ] is symmetric, find the value of x.  $x^2 x+3$ 

## Solution

If the matrix  $\begin{pmatrix} 0 & 6-5x \\ x^2 & x+3 \end{pmatrix}$  is symmetric, then  $6-5x=x^2 \Leftrightarrow x^2+5x-6=0 \Leftrightarrow x=1 \ or \ x=-6$  .

**Answer:** x = 1 or x = -6.