## Answer on Question \#54403-Math-Algebra

The following equation has a positive and a negative solution.
$(\mathrm{v}$ minus 3 over $v$ minus 1$)=(2$ over $v+2)$
Solve the equation and enter the positive solution in the box below (as an integer or rounded to one decimal place as appropriate)

## Solution

$$
\begin{gathered}
\frac{v-3}{v-1}=\frac{2}{v+2} \\
v^{2}-v-6=2 v-2 \\
v^{2}-3 v-4=0 \\
D=(-3)^{2}-4 \cdot(-4)=25 \\
v_{1}=\frac{3+5}{2}=4 ; v_{2}=\frac{3-5}{2}=-1 .
\end{gathered}
$$

Answer: 4.

