## Answer on Question \#48005 - Math - Algebra

1. $x^{\frac{3}{4}}-7 x^{\frac{1}{4}}=0$. Find the real solutions to the equation.

## Solution.

At first, we will rewrite the initial equation in the next form:
$x^{\frac{1}{4}}\left(x^{\frac{1}{2}}-7\right)=0$.
To satisfy equation, we have
$x^{\frac{1}{4}}=0$, hence $x=0$;
or
$\sqrt{x}-7=0$,
$\sqrt{x}=7$, hence $x=49$, because $x$ is non-negative due to the domain of square root.
And finally we obtain $x_{1}=0, x_{2}=49$.
Answer:
Real solutions of equation are $x_{1}=0$ and $x_{2}=49$.

