## Answer on Question \#63788 - Physics - Mechanics | Relativity

## Question:

A boat is travelling at 15 miles per hour. A man walks across the deck in a direction at right angles to the direction of the boat at the rate of 6 ft per second. What is the total distance traveled by the man in 1 second with respect to the earth?

Answer:
$S=\sqrt{V_{\text {boat }}^{2} t^{2}+V_{\text {man }}^{2} t^{2}}=22.8 \mathrm{ft}$.

