## Answer on Question \#64450-Physics-Mechanics-Relativity

hi dear friend i have question about that if work is scalar quantity so if we add angle with work formula what is the ans scalar or vector

Example:
$\mathrm{W}=\mathrm{F} . \mathrm{d} \cdot \cos \theta=$ vector or scalar

## Answer

The work is scalar quantity. It can be represented as scalar product of the force and displacement vectors:

$$
W=\vec{F} \cdot \vec{d}
$$

Or

$$
W=F d \cos \theta
$$

where $\theta$ is the angle between the force and displacement vectors.

