## 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:

W= F.d. $\cos\theta$ =vector or scalar

## **Answer**

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

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

Or

$$W = Fd \cos\theta$$
,

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