Answer on Question #38666, Physics, Other

Question:

What is the value of teta and cos teta when the force and the displacement is perpendicular to each other?

Answer:

The word perpendicular describes the relationship between two vectors which intersect at a right angle. Therefore:

$$\theta = 90°$$

And $cos(90°)$ equals 0:

$$\cos\theta = cos(90°) = 0$$

Answer: $\theta = 90°, \cos\theta = 0$