

Work is defined by the following formula:

$$A = F * S * \cos(\alpha)$$

where: F - force

S - displacement

α - the angle between the force and displacement

So, substituting given values, we obtain:

$$A = 25 * 50 * \cos(40) = 1250 * \cos(40) = 957.5 \approx 958 \text{ J}$$

Answer: 958 J