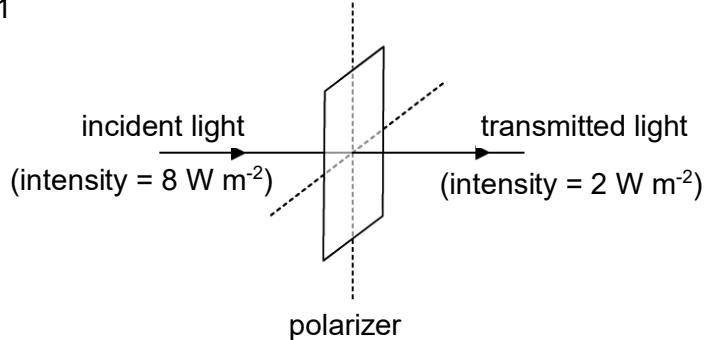


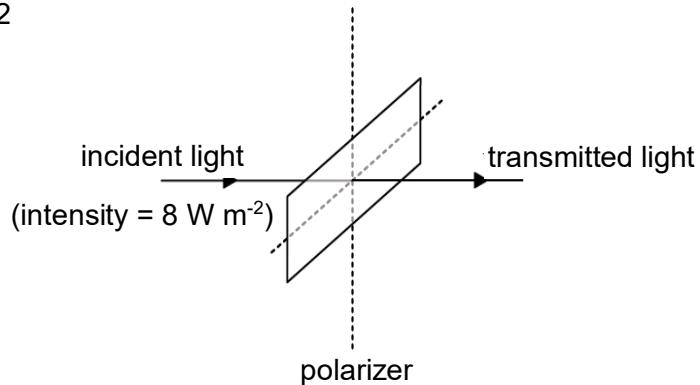
- 17** Plane-polarized light is incident normally on a polarizer which is able to rotate in the horizontal axis. In the first experiment, after the first rotation, the intensity of the incident light is 8 W m^{-2} and the transmitted intensity of light is 2 W m^{-2} , as shown in diagram 1.

diagram 1



The experiment is repeated with the same incident light but with polarizer rotated 90° from the orientation in diagram 1. This set-up is shown in diagram 2.

diagram 2



What is the new transmitted intensity?

A 0 W m^{-2}

B 2 W m^{-2}

C 6 W m^{-2}

D 8 W m^{-2}