

- 13** Vertical plane-polarised radio-waves of amplitude A is transmitted towards a receiving antenna. The antenna is tilted at an angle θ from the vertical in the plane perpendicular to the direction of propagation of the radio-waves.

Which of the following is the power received by the antenna proportional to?

A $A^2 \cos^2 \theta$

B $A \cos \theta$

C $A \sin \theta$

D zero