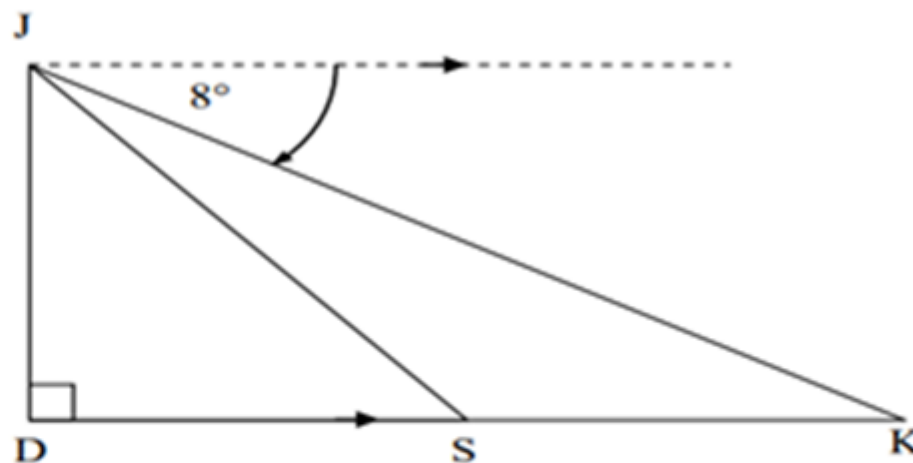


An airplane at  $J$  is flying directly over point  $D$  on the ground at a height of 7 kilometres.

It is heading to land at point  $K$ . The angle of depression from  $J$  to  $K$  is  $8^\circ$ .

$S$  is a point along the route from  $D$  to  $K$ .



Write down the size of  $\hat{JKD}$ .

Calculate the distance  $DK$ , correct to the nearest metre.

If the distance  $SK$  is  $8\text{ km}$ , calculate the angle of elevation from point  $S$  to  $J$ , correct to ONE decimal place.