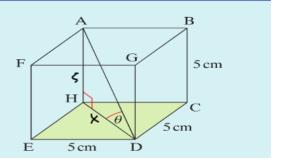
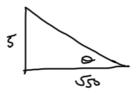
Example 1

The given figure shows a cube of side 5 cm.

Find the measure of the angle between the diagonal [AD] and the base of the cube.





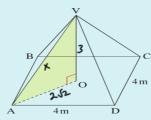


$$Tend = \frac{5}{55}$$

 $8 = tan^{-1} (\frac{5}{55})$
 $= 35.26$

Example 2

The pyramid shown has a square base of side 4 m and a vertical height of 3 m.



- (i) Calculate the length of the edge [AV].
- Hence calculate, correct to the nearest whole number, the total area of the four triangular faces.



$$\frac{x}{25}$$
 3 $x^2 = (25)^2 +$

