1. In each of the following figures of cuboid *ABCDEFGH*, name of the angle between the two shaded planes.



The angle between plane *ABCD* and plane *ABHE* is ______ .



The angle between plane *ABHE* and plane *CDEH* is

.

(a)



The angle between plane *ABCD* and plane *BCEF* is _____ .



The angle between plane *ADEF* and plane *BCEF* is



The angle between plane *ABCD* and plane *CDFG* is



The angle between plane *ADHG* and plane *BCHG* is

.

2. Each of the figures below shows a triangular prism *ABCDEF*. *ABCD* and *DCFE* are rectangles. Name of the angle between the two given planes.

.

(b)



The angle between plane *ABCD* and plane *ABFE* is ______.



The angle between plane *ABFE* and plane *CDEF* is _____

3. Each of the figures below shows a right rectangular pyramid *VABCD*. *ABCD* is a rectangle. *O* is the intersection of *AC* and *BD*. *M* and *N* are the mid-points of *AB* and *AD* respectively.

(b)



- (i) The angle between plane *VAB* and plane *ABCD* is _____ .
- (ii) Mark the angle on the above figure.



- (i) The angle between plane *VAD* and plane *ABCD* is _____ .
- (ii) Mark the angle on the above figure.
- 4. *VABC* is a triangular pyramid with altitude *VC*. *CD* is perpendicular to *AB*. *M* is the mid-point of *AB*.



(a) Name of the angle between plane*VAB* and plane *ABC*.

The angle between plane *VAB* and plane *ABC* is ______.

- (b) Mark the angle on the above figure.
- (c) Compare the angles \angle VMC and \angle VBC.



In each of the following figures of cuboid ABCDEFGH, name of the angle between the two shaded planes. 1.



Name of the angle between the two given planes.

(b)



(a)

The angle between plane ABCD and plane *ABFE* is \angle FBC . or \angle EAD



The angle between plane ABFE and plane *CDEF* is $\frac{\angle BFC}{\text{or} \angle AED}$

3. Each of the figures below shows a right rectangular pyramid *VABCD*. *ABCD* is a rectangle. *O* is the intersection of *AC* and *BD*. *M* and *N* are the mid-points of *AB* and *AD* respectively.

(b)



- (i) The angle between plane *VAB* and plane *ABCD* is $\angle VMO$.
- (ii) Mark the angle on the above figure.



- (i) The angle between plane VAD and plane ABCD is $\angle VNO$.
- (ii) Mark the angle on the above figure.
- 4. *VABC* is a triangular pyramid with altitude *VC*. *CD* is perpendicular to *AB*. *M* is the mid-point of *AB*.



(a) Name of the angle between plane*VAB* and plane *ABC*.

The angle between plane *VAB* and plane *ABC* is $\angle VDC$.

- (b) Mark the angle on the above figure.
- (d) Compare the angles ∠VMC and ∠VBC.
 ∠VDC is larger than ∠VMC and ∠VBC.