1. In Diagram 1, JL and NM are two vertical poles on a horizontal plane. K is a point on JL such that KL = NM. Name the angle of depression of N from J.

2. In Diagram 2, PQ and RS are two vertical buildings on a horizontal ground. The angle of elevation of P from R is 38°. Calculate the angle of elevation of R from Q.

3. In Diagram 3, QR is a tree, 16 m high. The horizontal distance between P and Q is 20 m. Calculate the angle of elevation of point R on top of the tree from P.

4. Diagram 4 shows Nordin observing a kite which is flying vertically above point L. The horizontal distance between him and point L is 20 m. Given that the angle of elevation of the kite from Nordin is 15°. Find the vertical height, \( h \), in m, of the kite.

5. In Diagram 5, PQ and RS are two vertical poles on horizontal plane. The angle of elevation of P from R is 35°. Calculate the value of \( t \).

6. In Diagram 6, GK and HJ are two vertical poles standing on a horizontal ground. The angle of depression of J from K is 15°. Calculate the height of pole HJ in meter.
7. In Diagram 7, MN is a vertical television antenna on top of a building. Given that the angles of elevation of M and N from the point Q are 31.3° and 28.1° respectively. Calculate the height, in m, of the television antenna.

8. Diagram 8 shows two vertical poles, PQ and RS, on a horizontal plane. The angle of depression of vertex R from vertex P is 35° and PQ = 2 RS. Find the distance of QS, in cm, correct to one decimal places.

9. Diagram 9 shows two vertical poles, PQ and RS, on a horizontal plane. The angle of depression of vertex P from vertex R is 40° and PQ = 2 RS. Calculate the distance, in m, of QS.

10. In Diagram 10, PQ and RS are two vertical poles on a horizontal plane. The angle of elevation of R from P is 32°. Calculate the height, in m, of RS.

11. In Diagram 11, J, K, L and M are four points on a horizontal ground. MN is a vertical pole with the height of 20 m. JM = ML and \( \angle JKL = 90° \). Calculate the angle of elevation of vertex N from the point L.
12. Diagram 12 shows a tower PQ. The points P, R and S lie on a horizontal plane. The angle of depression of R from Q is 60°. Find the angle of elevation of Q from S.

13. In Diagram 13, PQ and RT are two lighthouses on a horizontal ground. The height of RT is twice the height of PQ. The angle of depression of P from R is 43°. Calculate the height, in m, of the lighthouse RT.

14. Diagram 14 shows a vertical tower SQ on a horizontal plane. The point P, Q and R lie on the plane. The angle of elevation of the vertex S from P is 53°. Find the angle of elevation of the vertex S from R.

15. Diagram 15 shows two vertical towers PQ and RS. The height of tower RS is 5 m and the height of tower PQ is twice the height of tower RS. The distance between the two towers is 20 m. Find the angle of depression of point S from point P.

16. In Diagram 16, PQ and RST are two vertical poles on a horizontal plane. Find the angle of depression of point R from point Q.

17. In Diagram 17, AB and CD are two vertical poles on horizontal ground. The angle of elevation of vertex S from Q is 32°. Calculate the distance, in m, between P and R.
18. In Diagram 18, PQ and RS are two vertical poles on a horizontal plane. The angle of elevation of P from S is 30°. Calculate the angle of elevation of R from P.

![Diagram 18](image1.png)

19. In Diagram 19, PQ and RS are two vertical poles on a horizontal ground. The angle of depression of peak R from peak P is 30°. Calculate the height in m, of the pole RS.

![Diagram 19](image2.png)

20. In Diagram 20, A and B are two points on a horizontal plane. Point C lies on the vertical pole, BK. Name the angle of elevation of point C from point A.

![Diagram 20](image3.png)

21. Diagram 21 shows a tree and a vertical pole are on a horizontal plane. The angle of depression of the tree top from the peak of the pole is 42°. Find the value of h.

![Diagram 21](image4.png)

22. Diagram 22 shows two vertical poles, ST and JKL, on a horizontal plane. Name the angle of depression of point T from point J.

![Diagram 22](image5.png)

23. Diagram 23 shows two vertical poles PQ and RS on a horizontal plane. The points Q and S lie on the plane. The distance between Q and S is 24 m. Find the angle of elevation of P from R.

![Diagram 23](image6.png)