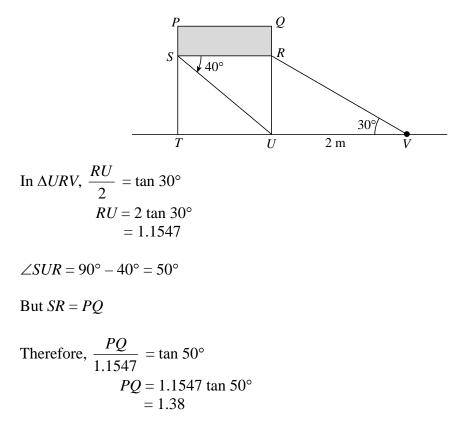


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CHAPTER 10: ANGLES OF ELEVATION AND DEPRESSION

🕑 Paper 1

Solution to Question 20



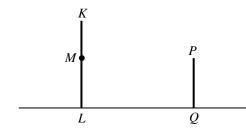
Answer: **D**





1.

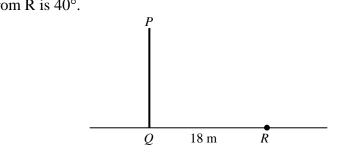
Clone SPM 2006 The diagram shows two vertical poles, *KL* and *PQ*, on a horizontal plane.



Given ML = PQ, name the angle of depression of P from K.

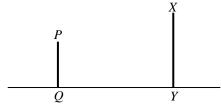
Α	$\angle KPQ$	С	$\angle KPL$
B	$\angle KPM$	D	$\angle KQL$

2. In the diagram, PQ is a vertical flag pole on a horizontal plane. The angle of elevation of P from R is 40°.



The height, in m, of the flag post is

- **A** 11.57
- **B** 13.79
- **C** 15.10
- **D** 21.45
- 3. In the diagram, PQ and XY are two vertical poles on a horizontal plane. The difference in height between the two poles is 2 m and the horizontal distance between the two poles is 8 m.

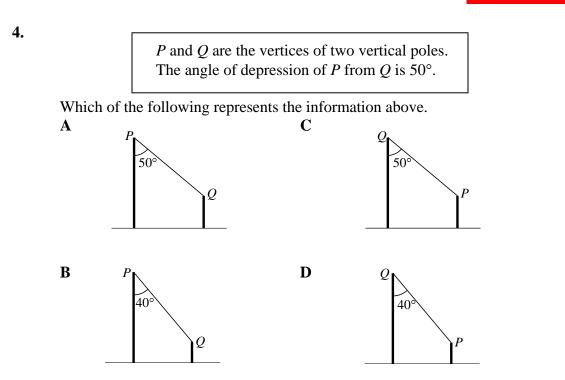


The angle of depression of *P* from *X* is

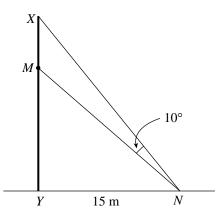
Α	14.0°	С	75.5°
B	14.5°	D	76.0°







5. In the diagram, XY is a vertical pole on a horizontal plane. XN and MN are two straight ropes tied to the pole XY. The angle of elevation of M from N is 41° .



Find the height of the pole, in m.

- 9.44 А
- B 11.66
- С 12.15
- D 18.52