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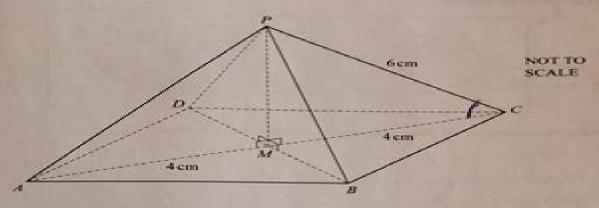
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11

The diagram shows a pyramid on a square base ABCD with diagonals, AC and BD, of length 8 cm. AC and BD meet at M and the vertex, P, of the pyramid is vertically above M. The sloping edges of the pyramid are of length 6 cm.

#### Calculate

(a) the perpendicular height, PM, of the pyramid,

(b) the angle between a sloping edge and the base of the pyramid.

$$\cos x = \frac{4}{6} = \frac{2}{3} \rightarrow x = \cos^{-1}(\frac{2}{3}) = 48.2^{\circ}$$

Question 22 is printed on the next page.

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**VM** Jensen

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