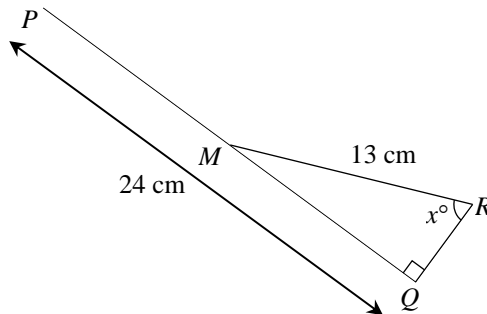# CHAPTER 9: TRIGONOMETRY II

Paper 1

1. In the diagram, *M* is the midpoint of the straight line *PQ*.

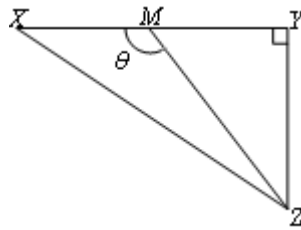Clone
SPM
2006

The value of cos *x* is

A $\dfrac{5}{13}$

B $\dfrac{12}{13}$

C $\dfrac{5}{12}$

D $\dfrac{12}{5}$

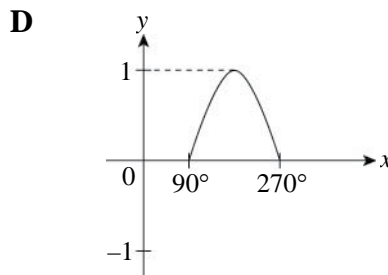**2.** The diagram shows a right-angled triangle *XYZ* with *M* as the midpoint of *XY*.
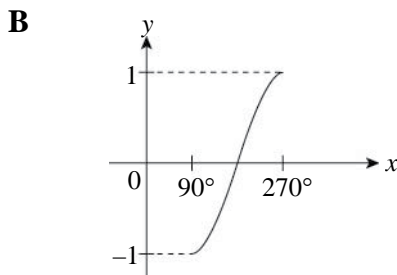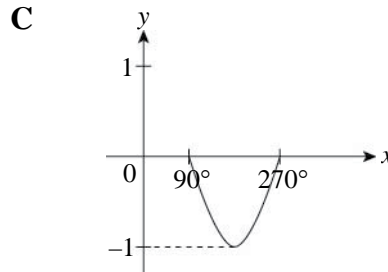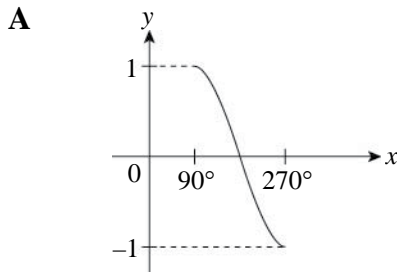
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Given *MZ* = 10 cm and *XY* = 12 cm, find the value of tan θ.

A $-\dfrac{3}{5}$

B $-\dfrac{3}{4}$

C $-\dfrac{4}{5}$

D $-\dfrac{4}{3}$

3. Which of the following represents the graph of $y = \cos x$ for $90° \le x \le 270°$?

A

C

B

D

4. In the diagram, *PMQR* is a straight line such that *M* is the midpoint of *PQ*.
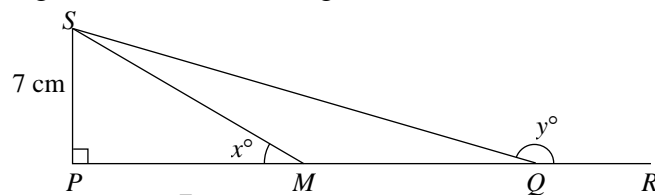
Given that $\tan x° = \dfrac{7}{12}$, find the value of $\cos y°$.

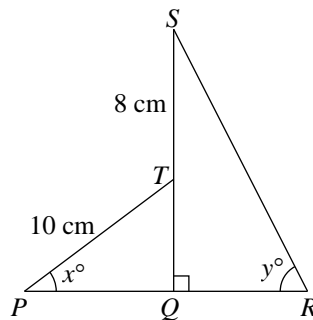**A** $\quad -\dfrac{7}{25}$ 　　　　　　　　　 **C** $\quad -\dfrac{7}{24}$

B $\quad -\dfrac{24}{25}$ 　　　　　　　　 **D** $\quad -\dfrac{25}{24}$

5. In the diagram, *PQR* and *STQ* are straight lines. It is given that $\cos x = \dfrac{4}{5}$ and $\tan y = 2$.

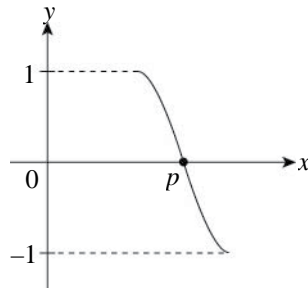Find the length of the straight line *PQR*, in cm.

A 13 　　　　　　　　　　 **C** 15

B 14 　　　　　　　　　　 **D** 16

6.   The diagram shows part of the graph of $y = \sin x$.

The value of p is

A	90°	**C**	270°
B	180°	**D**	360°

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