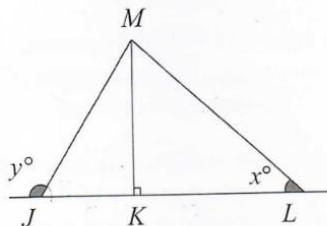


Rajah 4 menunjukkan satu garis lurus, JKL dengan panjang 18 cm.
Diagram 4 shows a straight line, JKL with a length of 18 cm.



Rajah 4 / Diagram 4

Diberi $\cos y^\circ = -0.3746$ dan nisbah $JK : KL = 1 : 2$. Hitung
Given $\cos y^\circ = -0.3746$ and ratio $JK : KL = 1 : 2$. Calculate

[4 markah / marks]

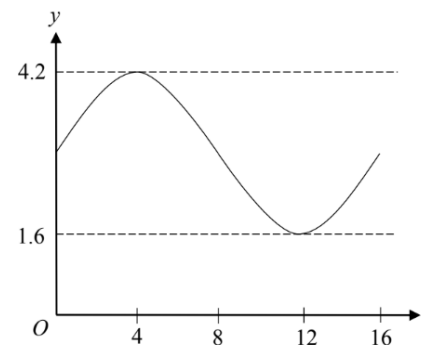
- (a) panjang KM
length of KM
 (b) $\tan x^\circ$

Jawapan / Answer:

(a)

(b)

Rajah 5 menunjukkan aras air yang direkodkan di sebuah limbungan kapal. Diberi y mewakili aras air, dalam meter dan x mewakili masa, dalam jam.
Diagram 5 shows the water level recorded in a dockyard. Given that y represents the water level, in metre and x represents time, in hours.



Rajah 5
 Diagram 5

Nyatakan
State

- (a) amplitud aras air,
the amplitude of the water level,
 (b) tempoh aras air,
the period of the water level,
 (c) fungsi trigonometri bagi graf tersebut dalam bentuk $y = a \sin bx + c$.
the trigonometric function of the graph in the form of $y = a \sin bx + c$.

[3 markah]
 [3 marks]

Jawapan / Answer :

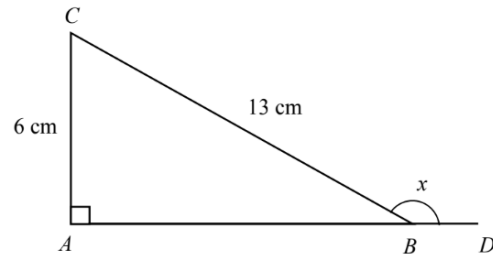
(a)

(b)

(c)

Rajah 6 menunjukkan segi tiga bersudut tegak ABC . Diberi ABD ialah garis lurus dan $AD = BC$.

The Diagram 6 shows a right-angled triangle ABC . Given ABD is a straight line and $AD = BC$.



Rajah 6
Diagram 6

- (a) Cari panjang BD .
Find the length of BD .
- (b) Cari nilai bagi
Find the value for
- $\sin x$
 - $\tan x$

[4 markah]

[4 marks]

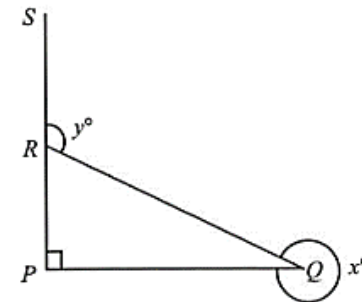
Jawapan / Answer:

(a)

(b) (i)

(ii)

Rajah 3 menunjukkan segitiga bersudut tegak, PQR dan PRS ialah garis lurus.
Diagram 3 shows a right-angled triangle, PQR and PRS is a straight line.



Rajah 3
Diagram 3

Diberi $\cos y^\circ = -\frac{7}{25}$.

Hitung nilai bagi $\tan x^\circ$. Seterusnya, tentukan nilai x .

Given $\cos y^\circ = -\frac{7}{25}$.

Calculate the value of $\tan x^\circ$. Hence, determine the value of x .

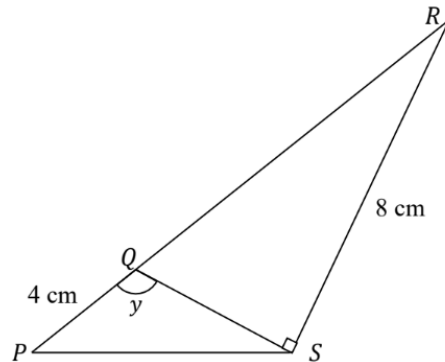
[4 markah]

Dalam Rajah 1 di bawah, PQR ialah garis lurus. Diberi bahawa $PQ:QR = 2:5$, cari $\cos y$.

[3 markah]

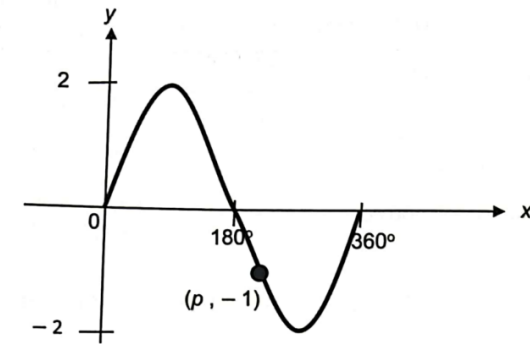
In Diagram 1 below, PQR is a straight line. Given $PQ:QR = 2:5$, find $\cos y$.

[3 marks]



9. Rajah 5 menunjukkan graf suatu fungsi trigonometri bagi $0^\circ \leq x \leq 360^\circ$.

Diagram 5 shows the graph of a trigonometric function for $0^\circ \leq x \leq 360^\circ$



Rajah 5 / Diagram 5

(a) Nyatakan fungsi trigonometri tersebut.

State the trigonometric functions.

(b) Tentukan nilai p

Determine the p value

[3 markah / marks]

(a) Pada ruang jawapan, lakarkan graf $y = 3 \sin 2x + 1$, untuk $0^\circ \leq x \leq 360^\circ$.

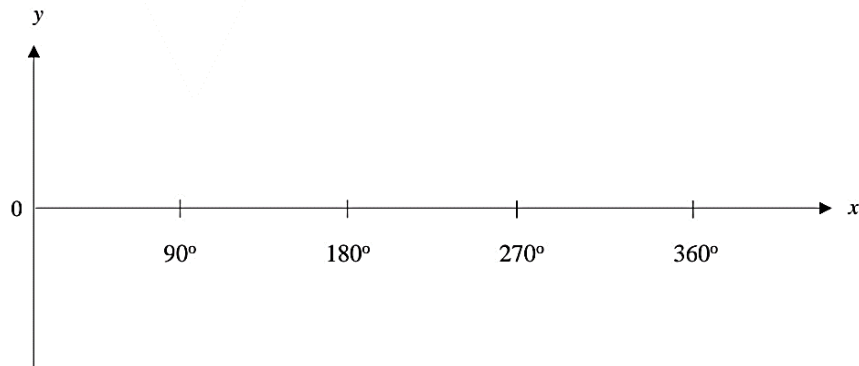
[2 markah]

(b) Seterusnya, cari nilai-nilai x apabila $y = 1$ selain $x = 0$

[2 markah]

Jawapan:

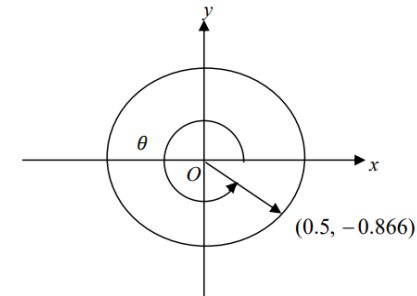
(a)



(b)

(a) Rajah 4.1 menunjukkan satu bulatan unit yang berpusat O .

Diagram 4.1 shows a unit circle with centre O .



Rajah 4.1
Diagram 4.1

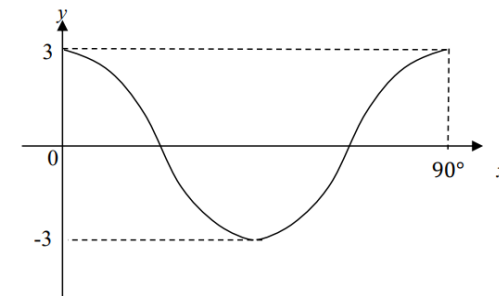
Tentukan nilai θ dan $\tan \theta$.

Determine the value of θ and $\tan \theta$.

[2 markah]
[2 marks]

(b) Rajah 4.2 menunjukkan graf $y = p \cos qx$ untuk $0^\circ \leq x \leq 90^\circ$.

Diagram 4.2 shows the graph of $y = p \cos qx$ for $0^\circ \leq x \leq 90^\circ$.



Rajah 4.2
Diagram 4.2

Nyatakan nilai-nilai bagi

State the value of

(i) p

(ii) q

[2 markah]

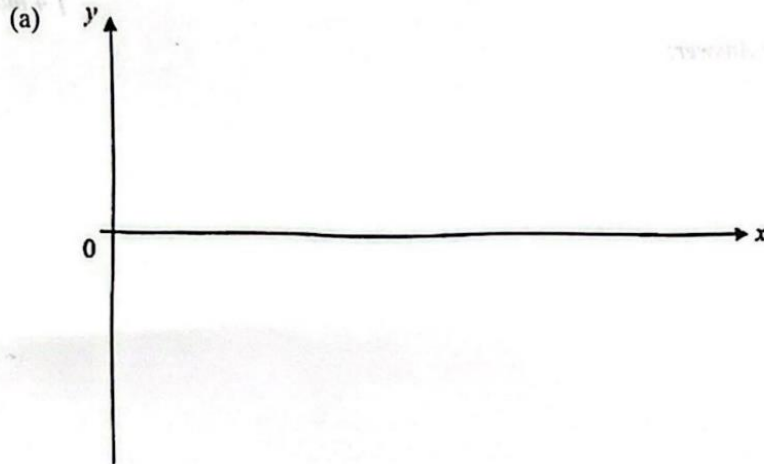
5. (a) Lakarkan graf $y = 2 \cos x$ dalam Rajah 3 di ruang jawapan bagi $0^\circ \leq x \leq 360^\circ$.
Sketch the graph of $y = 2 \cos x$ in the Diagram 3 in the answer space for $0^\circ \leq x \leq 360^\circ$.

- (b) Seterusnya tentukan nilai minimum graf di 5(a).
Hence determine the minimum value for the graph in 5(a).

[4 markah]

[4 marks]

Jawapan/ Answer:



Rajah 3
Diagram 3

(b)