TRIG GRAPHS PPQ's

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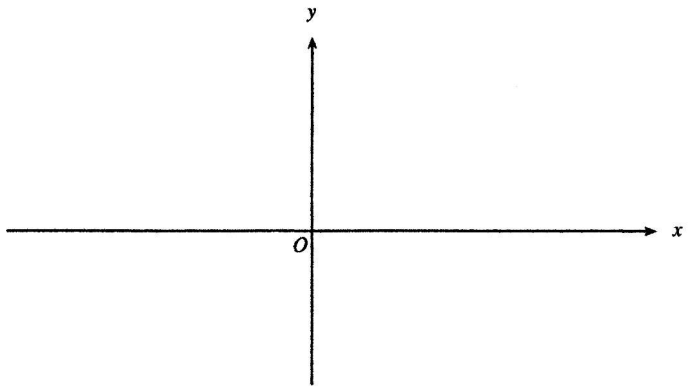
1 *(a)* Using the axes below, **sketch** the graph of $y = \sin x$ for values of x from $-180°$ to $180°$. [2]



(b) Find all solutions of the following equation in the range $-180°$ to $180°$.

$$\sin x = -0{\cdot}3091$$

[2]

(0182/6)

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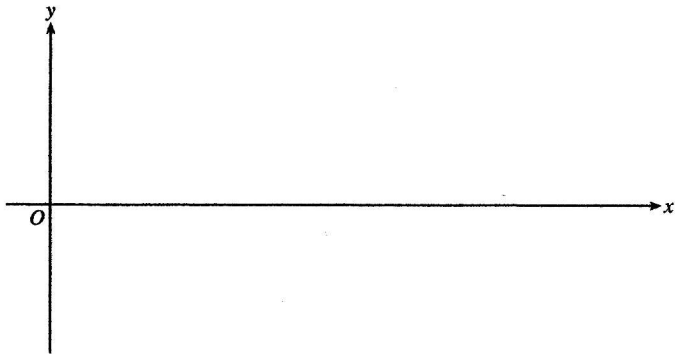
2 *(a)* Using the axes below, **sketch** the graph of $y = \cos x$ for values of x from $0°$ to $360°$. [2]



(b) Find all solutions of the following equation in the range $0°$ to $360°$.

$$\cos x = 0{\cdot}9205$$

[2]

(184-10)

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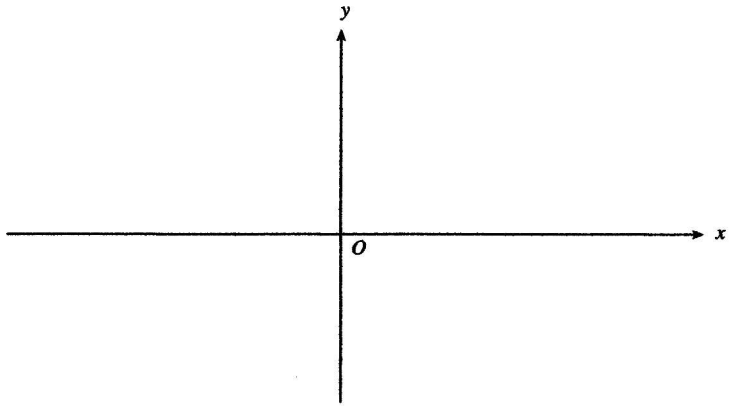
3

(a) Using the axes below, **sketch** the graph of $y = \cos x$ for values of x from $-180°$ to $180°$. [2]



(b) Find all solutions of the following equation in the range $-180°$ to $180°$.

$$\cos x = -0{\cdot}829$$

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.....

[2]

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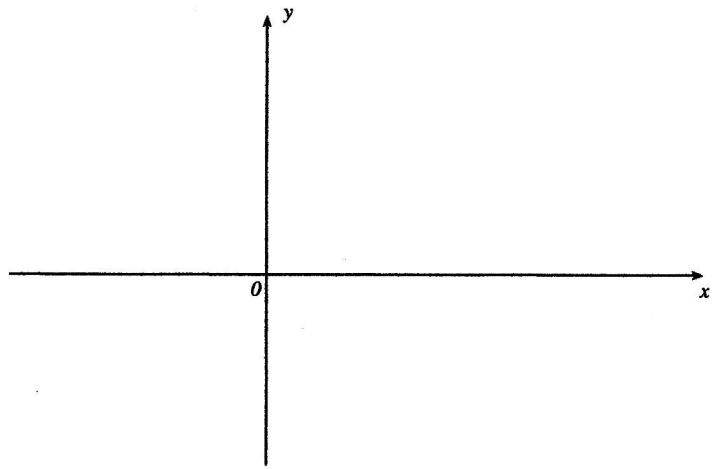
4

(a) Using the axes below, **sketch** the graph of $y = \sin x$ for values of x from $-180°$ to $360°$.

[2]



(b) Find all solutions of the following equation in the range $-180°$ to $360°$.

$$\sin x = -0{\cdot}8$$

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.....

.....

.....

[3]

Turn over.

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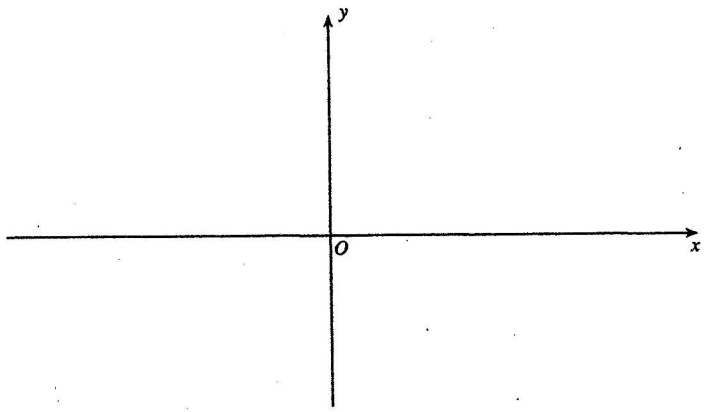
5 *(a)* Using the axes below, **sketch** the graph of $y = \sin x$ for values of x from $-180°$ to $360°$. [2]



(b) Find all solutions of the following equation in the range $-180°$ to $360°$.

$$\sin x = -0{\cdot}707$$

[3]

Turn over.

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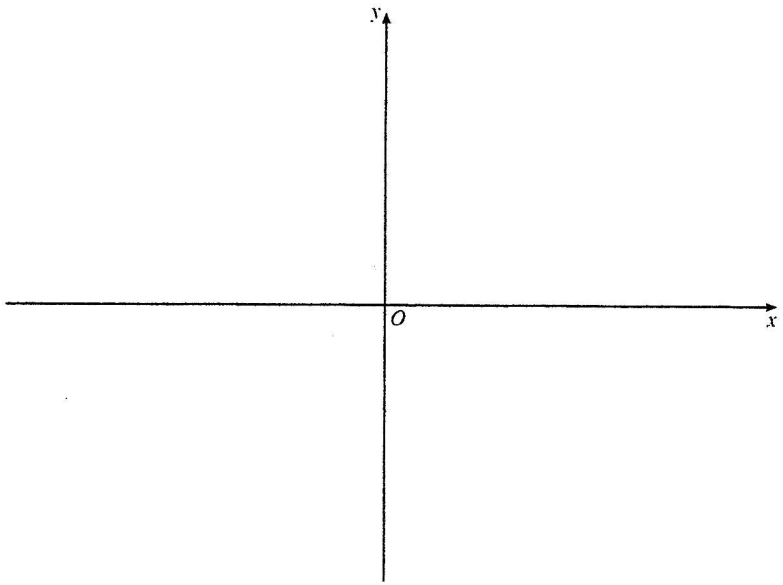
6 *(a)* Using the axes below, **sketch** the graph of $y = \tan x$ for values of x from $-180°$ to $180°$. [3]



(b) Find all solutions of the following equation in the range $-180°$ to $180°$.

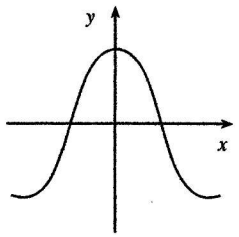
$$\tan x = -14{\cdot}3$$

[2]

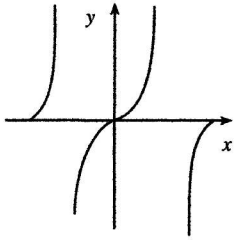
Non-Calc

(7) Sketches of three graphs labelled A, B and C are shown below.

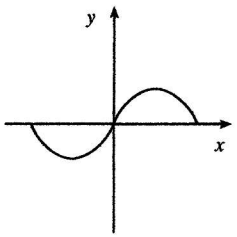
A



B



C



Complete the following table matching each function with the appropriate graph.

Function	Graph
$y = \cos x$	
$y = \sin x$	
$y = \tan x$	

[2]

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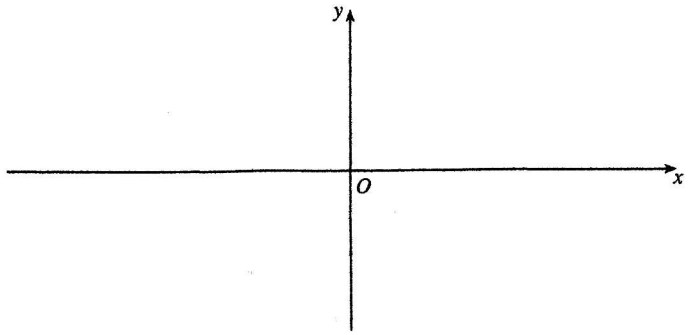
Non-Calc

(8) *(a)* Using the axes below, **sketch** the graph of $y = \cos x$ for values of x from $-180°$ to $180°$. [2]



(b) Write down the value of

(i) cos 0°,

.....

[1]

(ii) cos 90°.

.....

[1]

(c) Given that $\cos 75° = 0{\cdot}2588$, write down a value of angle A for which $\cos A = -0{\cdot}2588$.

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[1]

15. Given that w is directly proportional to f^2, and that $w = 100$ when $f = 5$,

(a) find an expression for w in terms of f,

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[3]

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