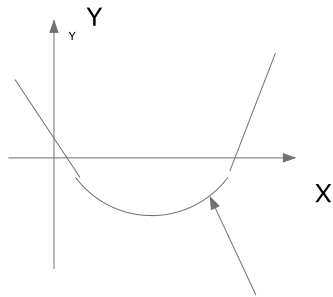Ref108

Axis of symmetry , X axis crossing point and Y axis crossing point of the given graph are

$Y = 2X^2 - 12X + 3$

A	(3,-5)(0,3)(5.5,0.5)	B	(5,-3)(3,0) (0.5,5.5)
C	(0,0)(3,3)(5,0.5)	D	(3,-5) (1,2) (5.5,0.5)
	Answer		

Ref109

The answer of

$$\int \sin^2 3X \, dX$$

is

A	X/ 3 – Sin 6X +C	B	X^2 –Sin 3X +C
C	X/2 - 1/ 12 Sin 6X + C	D	X – 12 Sin 6X + C
	Answer		

Ref110

The answer of the following

$$\int \text{Sin 3 X Cos 7X } dx \quad \text{is}$$

A	1/20 cos 20X + 1/ 8 sin 4X	B	1/10 cos 10X - 1 /8 sin 4x
C	cos 10X + sin X	D	-1/20 cos 10X + 1/8 cos 4X
	Answer		

Ref114

If $\log_3 81 = X$, then X is

A	3	B	2
C	4	D	1/2
	Answer		

Ref115

If an amplifier has an input power at 1.7mw output 5.8 watts. Calculate power gain.

A	35.3	B	70
C	17	D	25
	Answer		

Ref116

$\log_{10} K / (K - X) = t$ Find X

A	$X = \dfrac{K \times 10^t}{10^t - 1}$	B	$X = \dfrac{K(10^t - 1)}{10^t}$
C	$X = K \times 10^t$	D	$X = \dfrac{K}{10^t}$
	Answer		

Ref119

Find period and angular velocity of

30MHz are

A	0.033 µs , 188.4 x 10^6 rad/s	B	0.33 µs , 188 x 10^3 rad/s
C	0.3 ms , 188.4 x 10^3 rad/s	D	0.3s , 188.4rad/s
Answer			

Ref121

Cos (α – β) is equal to

A	Cos α Cosβ+ Sinα Sinβ	B	Cos α Sinβ+ Sinα Cosβ
C	Sinα Sinβ -Cos α Cosβ	D	Sinα Cosβ + Cos α Sinβ
Answer			

Ref122

Sin (A+B)

--------------- is equal to

Cos (A-B)

A	$\dfrac{1+tanA\ tanB}{tanA+tanB}$	B	$\dfrac{tanA+ tanB}{1+tanAtanB}$
C	$\dfrac{tanA- tanB}{1-tanAtanB}$	D	$\dfrac{tana- tanB}{1+tanAtanB}$
Answer			

Ref124

If a body undergoes a displacement in 12 km due north followed by a displacement of 5 km due east.
Find the displacement and direction.

A	13, 22.6 deg	B	17, 0 deg
C	7, 90 deg	D	13, 90 deg
	Answer		

Ref128

d cos 3 ϴ

--------------   is equal to

d ϴ

A	-sin3 ϴ	B	-3sin3 ϴ
C	3sinϴ	D	Cos3nϴ
	Answer		

Ref131

$Y = (X+1)^2 (X+3)^3$, dy/ dx   is equal to

A	$3(X+1)^2 (X+3)^2 + 2 (X+3)^3 (X+1)$	B	$(X+1) (X+3)^2 + (X+3)^2 (X+1)^3$
C	$3(X+1)^2 (X+3)^3 + 2 (X+3) (X+1)^2$	D	$3(X+2) (X+1) + 3 (X+3) (X+1)^2$
	Answer		