

E050 Online Test

Ref104

The answer of the following is

$$(2X^2=4X+1) (3X^3-X^2-2)$$

A	$3X^6-2X^5+12X^4-3X^3+X^2+8X+2$	B	$6X^6-2X^5-12X^4+3X^3-X^2+8X-2$
C	$X^6+X^5+6X^4+3X^3+X^2-8X-2$	D	
Answer			

Ref107

The answer of the following equation is

$$\frac{2t - 3}{25} = \frac{4}{2t - 3}$$

A	2/ 13	B	13
C	6	D	13/2
Answer			

Ref110

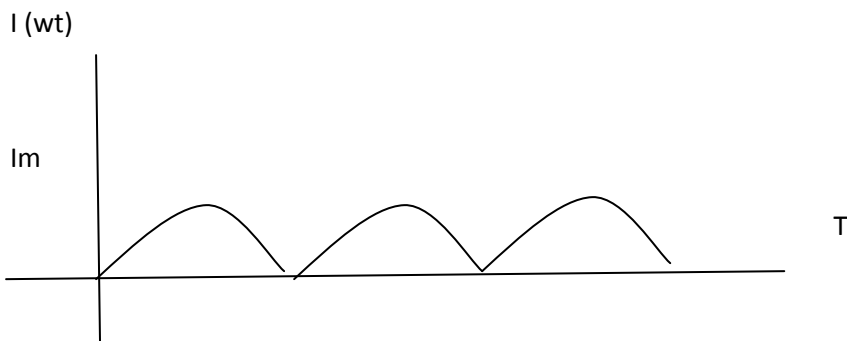
The answer of the following

$$\int \sin 3 X \cos 7X dx \quad \text{is}$$

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			

Ref113

The average value of the following waveform is



A	0.636Im	B	0.5Im
C	0.707Im	D	1.4142Im
Answer			

Ref116

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

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

Ref119

Find period and angular velocity of

30MHz are

A	0.033 μ s , 188.4 $\times 10^6$ rad/s	B	0.33 μ s , 188 $\times 10^3$ rad/s
C	0.3 ms , 188.4 $\times 10^3$ rad/s	D	0.3s , 188.4rad/s
Answer			

Ref122

Sin (A+B)

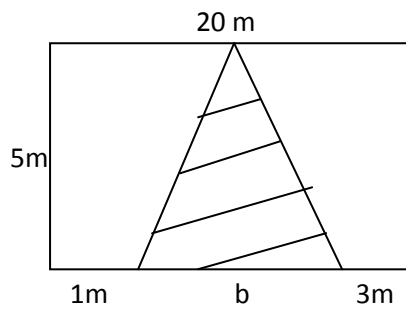
----- is equal to

Cos (A-B)

A	$\frac{1+\tan A \tan B}{\tan A + \tan B}$	B	$\frac{\tan A + \tan B}{1 + \tan A \tan B}$
C	$\frac{\tan A - \tan B}{1 - \tan A \tan B}$	D	$\frac{\tan A - \tan B}{1 + \tan A \tan B}$
Answer			

Ref125

Find the areas of the following shadings



A	20 m^2	B	30 m^2
C	90 m^2	D	45 m^2
Answer			

Ref128

$d \cos 3 \theta$

----- is equal to

$d \theta$

A	$-\sin 3 \theta$	B	$-3 \sin 3 \theta$
C	$3 \sin \theta$	D	$\cos 3 \theta$
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			

Ref134

If $Y = X^3 + 3X^2 + 4$

dy/dx , d^2y/dx^2 and d^3y/dx^3 are

A	$3X^2 + 6X, 6X + 6, 6$	B	$X^2 + X, 6X + 6, 0$
C	$3X^2, 6X + 6, 6$	D	$3X + 6, 6, 0$
Answer			

Ref136

The answer of e^{ax}

$$\int \frac{e^{ax}}{e^{ax}+a} dx \text{ is}$$

A	$1/a \ln(e^{ax}+a)$	B	$a \ln(e^{ax}+a)$
C	$\ln(e^{ax}+a)$	D	$1/a$
Answer			