



Mahendra's

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Don't Let Your Studies Get Impacted By COVID-19 Pandemic

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Same
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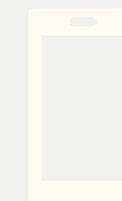
PDFs



Classes In
Both Model

CONTACT US:

1800-103-5225



The value of $\tan (63^\circ - \theta) - \cot (27^\circ + \theta) + \frac{\operatorname{cosec}^2 70^\circ - \tan^2 20^\circ}{\sec^2 37^\circ - \cot^2 53^\circ}$ is :

$\tan (63^\circ - \theta) - \cot (27^\circ + \theta) + \frac{\operatorname{cosec}^2 70^\circ - \tan^2 20^\circ}{\sec^2 37^\circ - \cot^2 53^\circ}$ का मान क्या है:

(A) 0 (B) 3

(C) 2 (D) 1

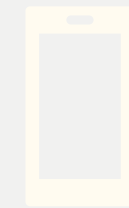


If $x = \operatorname{cosec} A + \cos A$ and $y = \operatorname{cosec} A - \cos A$, then find the value of $\left(\frac{2}{x+y}\right)^2 + \left(\frac{x-y}{2}\right)^2 - 1$

यदि $x = \operatorname{cosec} A + \cos A$ और $y = \operatorname{cosec} A - \cos A$, तो $\left(\frac{2}{x+y}\right)^2 + \left(\frac{x-y}{2}\right)^2 - 1$ का मान क्या है:

(A) 0 (B) 3

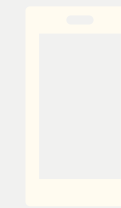
(C) 2 (D) 1



If A lies in the first quadrant and $6 \tan A = 5$, then the value of $\frac{8\sin A - 4\cos A}{\cos A + 2\sin A}$

यदि A प्रथम चतुर्थांश में स्थित है और $6 \tan A = 5$, तो $\frac{8\sin A - 4\cos A}{\cos A + 2\sin A}$ का मान है:

- (A) 4 (B) 1
(C) 16 (D) -2



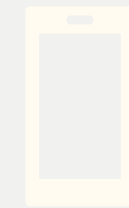


If $A + B = 45^\circ$, then the value of $2(1 + \tan A)(1 + \tan B)$ is:

यदि $A + B = 45^\circ$, तो $2(1 + \tan A)(1 + \tan B)$ का मान है:

(A) 4 (B) 1

(C) 0 (D) 2



If $x = 4 \cos A + 5 \sin A$ and $y = 4 \sin A - 5 \cos A$, then the value of $x^2 + y^2$ is:

यदि $x = 4 \cos A + 5 \sin A$ और $y = 4 \sin A - 5 \cos A$, तो $x^2 + y^2$ का मान है:

(A) 25 (B) 0

(C) 16 (D) 41



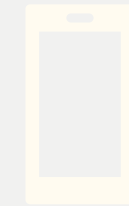


If $\frac{\sec \theta - \tan \theta}{\sec \theta + \tan \theta} = \frac{3}{5}$, then the value of $\frac{\operatorname{cosec} \theta + \cot \theta}{\operatorname{cosec} \theta - \cot \theta}$ is :

यदि $\frac{\sec \theta - \tan \theta}{\sec \theta + \tan \theta} = \frac{3}{5}$, तो $\frac{\operatorname{cosec} \theta + \cot \theta}{\operatorname{cosec} \theta - \cot \theta}$ का मान है:

(A) $27 + \sqrt{15}$ (B) $33 + 4\sqrt{15}$

(C) $31 + 8\sqrt{15}$ (D) $24 + \sqrt{15}$





If $2\sin\theta + 15\cos^2\theta = 7$, $0^\circ < \theta < 90^\circ$, then $\tan\theta + \cos\theta + \sec\theta = ?$

यदि $2\sin\theta + 15\cos^2\theta = 7$, $0^\circ < \theta < 90^\circ$ है तो $\tan\theta + \cos\theta + \sec\theta = ?$

- (A) $3\frac{4}{5}$ (B) 4
(C) 3 (D) $3\frac{3}{5}$





The value of the expression $\operatorname{cosec}(85^\circ + \theta) - \sec(5^\circ - \theta) - \tan(55^\circ + \theta) + \cot(35^\circ - \theta)$ is:

समीकरण $\operatorname{cosec}(85^\circ + \theta) - \sec(5^\circ - \theta) - \tan(55^\circ + \theta) + \cot(35^\circ - \theta)$ का मान क्या है?

(A) 1

(B) 0

(C) -1

(D) $3/2$





If $5\sin^2\theta + 14\cos\theta = 13$, $0^\circ < \theta < 90^\circ$, then what is the value of $\frac{\sec\theta + \cot\theta}{\operatorname{cosec}\theta + \cot\theta}$?

यदि $5\sin^2\theta + 14\cos\theta = 13$, $0^\circ < \theta < 90^\circ$ है, तो $\frac{\sec\theta + \cot\theta}{\operatorname{cosec}\theta + \cot\theta}$ का मान क्या है?

- (A) $9/8$ (B) $32/27$
(C) $21/28$ (D) $31/29$



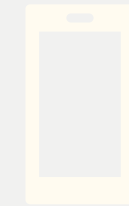


The value of $\frac{\tan 30^\circ \operatorname{cosec} 60^\circ + \tan 60^\circ \sec 30^\circ}{\sin^2 30^\circ + 4\cot^2 45^\circ - \sec^2 60^\circ}$ is :

$\frac{\tan 30^\circ \operatorname{cosec} 60^\circ + \tan 60^\circ \sec 30^\circ}{\sin^2 30^\circ + 4\cot^2 45^\circ - \sec^2 60^\circ}$ का मान है :

(A) $32/3$ (B) $2/3$

(C) $32/99$ (D) $8/3$





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UPCOMING ONLINE BATCHES



JUNE 2021

02 June 2021

10:30 AM to 12:30 PM

LIVE PREMIUM SILVER CARD
(CGL & CHSL)

05:30 PM to 07:30 PM

LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

10:30 AM to 12:30 PM

UPSSSC PET 2021
(ONLINE LIVE CLASS)

03:00 PM to 06:30 PM

SBI CLERK PRELIMS 2021
(ONLINE LIVE CLASS)

01:00 PM to 03:00 PM

MATHS COMPLETE COURSE

BILINGUAL

09 June 2021

05:30 PM to 07:30 PM
GS COMPLETE COURSE
(ONLINE LIVE CLASS)

08:00 AM to 10:00 AM
ENGLISH FOUNDATION COURSE

03:00 PM to 05:00 PM
REASONING FOUNDATION COURSE

BILINGUAL

09 June 2021

01:00 PM to 03:00 PM
LIVE PREMIUM SILVER CARD
(CGL & CHSL)

08:00 AM to 10:00 AM
LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

10:30 AM to 12:30 PM
UP POLICE SI 2021
(ONLINE LIVE CLASS)

03:00 PM to 05:00 PM
UPSSSC PET 2021
(ONLINE LIVE CLASS)

BILINGUAL

07:30 PM to 09:30 PM
LIVE PREMIUM GREEN CARD
(IBPS PO & CLERK)

ENGLISH MEDIUM

16 June 2021

05:30 PM to 07:30 PM
LIVE PREMIUM SILVER CARD
(CGL & CHSL)

03:00 PM to 05:00 PM
LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

05:30 PM to 07:30 PM
MAC SSC 2021
(ONLINE LIVE CLASS)

01:00 PM to 03:00 PM
UPSSSC PET 2021
(ONLINE LIVE CLASS)

BILINGUAL

23 June 2021

08:00 AM to 10:00 AM
LIVE PREMIUM SILVER CARD
(CGL & CHSL)

01:00 PM to 03:00 PM
LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

05:30 PM to 07:30 PM
UPSSSC PET 2021
(ONLINE LIVE CLASS)

BILINGUAL

07:30 PM to 09:30 PM
LIVE PREMIUM SILVER CARD
(CGL & CHSL)

ENGLISH MEDIUM

30 June 2021

03:00 PM to 05:00 PM
LIVE PREMIUM SILVER CARD
(CGL & CHSL)

10:30 AM to 12:30 PM
LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

07:30 PM to 09:30 PM
LIVE PREMIUM GREEN CARD
(BANK-PO & CLERK)

08:00 AM to 10:00 AM
UPSSSC PET 2021
(ONLINE LIVE CLASS)

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