



MISSION SSC 2023



TARGET: CGL • CHSL • MTS • CPO

MATHS

TRIGONOMETRY

SOME SPECIAL CASES



BY SHUBHAM MAHENDRAS

LIVE | 04:00 PM



UPCOMING ONLINE BATCHES

MARCH 2023

01 MARCH 2023

10:30 AM to 12:30 PM

SSC ONLINE LIVE CLASS

BILINGUAL

15 MARCH 2023

08:00 AM to 10:00 AM

BANK ONLINE LIVE CLASS

BILINGUAL

29 MARCH 2023

08:00 AM to 10:00 AM

SSC ONLINE LIVE CLASS

BILINGUAL

22 MARCH 2023

02:00 PM to 04:00 PM

BANK ONLINE LIVE CLASS

ENGLISH & BENGALI

05 APRIL 2023

05:30 PM to 07:30 PM

BANK ONLINE LIVE CLASS

BILINGUAL



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$$\tan 2A \cdot \tan 4A = 1, \quad \sin 2A + \cos 4A = ?$$



- 1.0
- 2.1
- 3.-1
- 4.NOT



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$$\sin(3x-12) = \cos(6x-3), \quad x = ?$$



1. 15
2. $105/9$
3. $135/7$
4. NOT



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Cot 5. Cot 43. Cot 47. Cot 85 = ?



- 1.0
- 2.1
- 3.-1
- 4.NOT



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$$\sin(x+y) \cdot \sec(x-y) = 1$$

$$\sin 2x + \cos 2x + \tan x + \cot x = ?$$



1.1

2.2

3.3

4.4



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$$\tan 5A \cdot \tan(37-4A) = 1, \quad A = ?$$



1.57

2.64

3.94

4.63



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$$\cos(m-n+1) \cdot \operatorname{cosec}(n-m+A+44) = 1, \quad \tan A + \cos^2 A = ?$$



- 1.1
- 2.2
- 3.1 $\frac{1}{2}$
- 4.0



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$$\cot A \cdot \tan(90-A) - \sec(90-A) \cdot \operatorname{cosec} A + (\sin^2 24 + \sin^2 66) + \tan 5 \cdot \tan 20 \cdot \tan 60 \cdot \tan 70 \cdot \tan 85 = ?$$



1.1

2. $\sqrt{3}$

3.0

4.2



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$$\frac{\sin 39}{\cos 51} + 3 \tan 12 \cdot \tan 33 \cdot \tan 45 \cdot \tan 57 \cdot \tan 78 - 6(\sin^2 19 + \sin^2 71) = ?$$



1. -1

2. -2

3. 1

4. 0



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$$\sin A + \cos A = \frac{7}{5}, \quad \sin A \cdot \cos A = ?$$



1. $9/25$
2. $16/25$
3. $12/25$
4. 1



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$$\sin A + \cos A = \frac{31}{25}, \quad \sin A \cdot \cos A = ?$$



1. $168/625$
2. $24/25$
3. $168/25$
4. NOT



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$$12\sin A + 5\cos A = 13, \quad \cot A = ?$$



1. $5/12$
2. $12/13$
3. $12/5$
4. NOT



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$$10 \sin^4 A + 15 \cos^4 A = 6,$$

$$27 \operatorname{cosec}^6 A + 8 \sec^6 A = ?$$



1.125

2.250

3.300

4.320



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$$6\sin^4 A + 3\cos^4 A = 2, \quad (7\operatorname{cosec}^6 A + 8\sec^6 A)^{1/3} = ?$$



- 1.3
- 2.2
- 3.6
- 4.216



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$$x\sin^3 A + y\cos^3 A = \sin A \cdot \cos A, \quad x\sin A - y\cos A = 0$$

$$x^2 + y^2 = ?$$



1.0

2.1

3.2

4.4



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1.a