ज्य श्री मिसिराज जो महाराज के ज्य श्री बॉकेबिहरों जो महाराज भूह !! TARGET=100

अन्य हा जिल्लाज जी महाराज के जिय श्री बाकाबहारी जी सहाराज इस !! NORK"

TRIGONOMETRY REVISION CLASS NO.2 +

QNS: 2 Find the minimum & Maximum value of 3 cosx + 4 sinx + 8

Concept
$$a coso + b sin o$$

Max value $= Ja^{2}+b^{2}$

Min Value $= -Ja^{2}+b^{2}$

Reason $M \ge D$ by $Joi + b^{2}$
 $= Ja^{2}+b^{2} \left(\frac{a}{Ja^{2}+b^{2}} \left(\frac{a}{Ja^{2}+b^{2}} \right) \right)$

Minvalue $= -Ja + b = -Ja + b$

Som
3 cosx + 45inx + 8
here a=3, b=4
Max value:
$$\sqrt{9+16}$$
 + 8
= 13
Minvaly = $-\sqrt{9+16}$ +
= -5+8
= 3

प्राचीनिविद्ती जी सहाराज भू ॥ TARGET=100

Find the minimum value of
$$g^{Sin0} + a^{CO0}$$

We have $A \cdot M = G \cdot M$
 $G \cdot b = Jab$
 $g^{Sin0} + 2^{CO0}$
 $g^{Sin0} + 2^{CO0}$

ज्य श्री गिस्रिज जी सहराज के ज्य श्री बांकेबहरी जी सहराज भर !! work" TARGET=100

TRIGONOMETRY REVISION CLASS NO.2 +

ONS: 4+ If
$$fon(\pi(0) = \cot(\pi \sin 0)$$
, then
Show that $\cos(\alpha - \frac{\pi}{4}) = \pm \frac{1}{2\sqrt{2}}$

$$\frac{Solin}{Sin(\pi(cosa))} = \frac{Cos(\pi Sino)}{Sin(\pi Sino)}$$

$$\Rightarrow Sin(x(00).Sin(xSin0) = (0)(xSin0).(0)(x(00))$$

$$\Rightarrow (0)(xSin0).(0)(x(00)) - Sin(xSin0).(0)(x(00))$$

$$\Rightarrow (0)(xSin0).(0)(x(00)) - Sin(xSin0).(0)(x(00))$$

$$\Rightarrow (0)(xSin0).(0)(x(00)) - Sin(xSin0).(0)(x(00))$$

Any 25

जा व. नर. जा सहिर्जि ।

TARGET-100

TRIGONOMETRY REVISION CLASS NO.2 +

$$\frac{1 \times 1610 \times 1000 \times 1000}{3 \times 1000} = \frac{1}{3} \times 1000 \times 10000 \times 10000 \times 10000 \times 10000 \times 1000 \times 1000 \times 100$$

िश्री शिलिज जी महाराज के ज्या श्री बाकाबहारी जी महाराज भर !! TARGET-100

TRIGONOMETRY REVISION CLASS NO.2 +

6+ If
$$(o(x+\beta)=\frac{4}{5})$$
 and $\sin(\alpha-\beta)=\frac{5}{13}$; $o \geq \alpha, \beta < \frac{\pi}{4}$ and the value of $\tan(2\alpha)$

She we have $\tan(2\alpha)=\tan(\alpha+\alpha+\beta-\beta)$
 $\Rightarrow \sin(\alpha+\beta)=\frac{3}{35}$
 $\Rightarrow \tan(2\alpha)=\tan(\alpha+\beta+\alpha-\beta)$
 $\Rightarrow \tan(2\alpha)=\tan(\alpha+\beta)+(\alpha-\beta)$
 $\Rightarrow \tan(2\alpha)=\tan(\alpha+\beta)+\tan(\alpha-\beta)$
 $\Rightarrow \tan(\alpha+\beta)=\frac{3}{5}$
 $\Rightarrow \tan(\alpha$

$$\frac{1}{13}; 0 < \alpha, \beta < \frac{1}{4} | \frac{$$

TARGET=10

TRIGONOMETRY REVISION CLASS NO.2 +

5:7+ In a DABC with LC = 90°. Find the Quadratic equation

whose 300ts are tonA and tanB

Pladuck of Rocks = tonA. ton B

Sum of Aoolts = tonA + tonB

= tonA + ton(90-A)

= tonA + conA

=
$$\frac{\sin A}{\cos A} + \frac{\cos A}{\sin A}$$

= $\frac{1}{2\sin A\cos A}$

प्राचित्र महाराज अप श्रा व्यक्षित्र जो सहराज भू ॥ TARGET=100

TRIGONOMETRY REVISION CLASS NO.2 +

Som we have
$$1-c\alpha x + sin\alpha$$
 $1+c\alpha x + sin\alpha$ $1+c\alpha x + sin\alpha$

जयश्री शिलिंग जी महलाज के जय श्री बांके बहिरी जी महाराज भर !! TARGET-100

TRIGONOMETRY REVISION CLASS NO.2 +

$$\frac{\int_{-\infty}^{\infty} Co(20)(co(24) + 1 - Co(20 - 24))}{2} - \left(1 - Co(20 + 24)\right) - \left(5520 - 1 - Co(20)\right)$$

$$= Co(20)(co(24) + 1 - Co(20 - 24)) - \left(1 - Co(20 + 24)\right) - \left(5520 - 1 - Co(20)\right)$$

$$= \frac{1}{(20)(20)(24)} + \frac{1}{(20)(20)(24)} - \frac{1}{(20)(20)(24)} = \frac{1}{(20)(20)(24)} + \frac{1}{(20)(20)(24)} = \frac{1}{(20)(20)(20)(24)} = \frac{1}{(20)(20)(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)} = \frac{1}{(20)(20)(20)(20)} = \frac{1}{(20)(20)(20)(2$$