TRIGONOMETRI 1

1-) $\frac{127\pi}{5}$ 'nin esas ölçüsü kaç radyandır?

$a)\frac{\pi}{5}\quad b)\frac{2\pi}{5}\ c)\frac{3\pi}{5}\quad d)\frac{7\pi}{5}\ e)\frac{9\pi}{5}$

2-) $\frac{Sinx+Secx}{Cosx+Co\sec x}=2\quad ise\ \cot x=?$

$a)1\ \ b)\frac{1}{2}\ \ c)\ 2\quad d)\frac{3}{2}\quad e)\ \frac{3}{4}$

3-) x bir reel acıyı göstermek üzere

$(1-Sinx+Cosx)(1+Sın\ -Cosx)=?$

$a)0\ \ b)Sin2x\ \ c)1-Sin2x\quad d)2\quad e)2Sinx$

4-) $\frac{2Cosx-3Sinx}{Cosx+2Sinx}=5\quad ise\ \cot x=?$

$a)-\frac{7}{4}\quad b)-\frac{13}{3}\ \ c)-\frac{7}{3}\quad d)-2\quad e)-\frac{3}{7}$

5-) $(\tan x+Secx)^2.\frac{1-Sinx}{1+Sinx}=?$

$a)1\quad b)1+Sinx\ \ c)0\quad d)Sec^2x\quad e)Cosx$

6-) tanx+ Cotx =3 ise $\tan^2 x+Cot^2=?$

$a)6\quad b)7\ \ c)8\quad d)9\quad e)\ 10$

7-)Aşağıdaki acıları işaret sırasına göre sıralayınız?
$Sin500^0\ ,Cos(-300^0),\ \tan150^0,\ Sec240^0$

$a)+,-,+,-\ \ b)+,+,-,-\ \ c)+,-+,+\quad d)+,+,-,-\ \ e)-,+,+,-$

8-) $\frac{Sin(-130^0).Sec(790^0)}{Cos(-680^0).Sin(-290^0)}=?$

$a)1\ \ b)-1\ \ c)-\tan50\quad d)-\tan10\ \ e)-\tan20$

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9- $\tan(-810^0+a)$ aşağıdakilerden hangisidir?

$a)Cosa\quad b)-\tan a\quad c)-Cosa\quad d)\tan a\quad e)-Cota$

10- $A=-2+Sin^212+Sin^218\quad ise\ -A^{-1}=?$

$a)-\frac{1}{2}\ \ b)-1\ \ c)\ 1\quad d)\ 2\quad e)\ \frac{1}{3}$

11- $2\tan130^0+\frac{2}{\tan220^0}-1=?$

$a)\ 1\ \ b)-1\ \ c)0\quad d)-\tan950\quad e)\tan50-1$

12) $\pi<x<\frac{3\pi}{2}$ olmak üzere $\tan x=\sqrt{\frac{2}{7}}$ *ise*
$Sin(x-\pi)=?$

$a)-\frac{\sqrt{2}}{3}\quad b)\frac{\sqrt{5}}{4}\ \ c)\frac{-\sqrt{3}}{3}\quad d)\frac{\sqrt{2}}{3}\quad e)-\frac{2}{3}$

13) $\tan20^0=a\quad ise\ \frac{\tan200^0-\tan110^0}{\tan250^0-\tan340^0}=?$

$a)-\frac{1}{a^2}\quad b)\frac{a-1}{a+2}\ \ c)-\frac{2}{a}\quad d)\frac{a+1}{a-1}\quad e)1$

14) $\frac{Sın\ 210^0-Cos1120^0}{\tan(-330^0)}=?$

$a)\frac{\sqrt{3}}{3}\quad b)\frac{2\sqrt{3}}{3}\ \ c)\frac{4\sqrt{3}}{3}\quad d)1\quad e)-\sqrt{3}$

15) $3Cos36^0-2Sin54^0+\frac{1}{Sec144^0}+3=?$

$a)1-2Cos36\ \ b)3+2Cos50\ \ c)3Sin56\ \ d)0\quad e)3$

16) $\frac{Sim155^0-Cos130^0}{Sin220^0-Cos295^0}=?$

$a)\ Sin25^0-Cos50^0\quad b)2\tan25^0-Cot50\ \ c)1\ \ d)0\quad e)3$

TRIGO NOMETRİ 2

1) $\dfrac{\tan(-1125^0).Sin750^0}{Cos\dfrac{3\pi}{4}.Cot\dfrac{9\pi}{4}} = ?$

$a)\dfrac{\sqrt{3}}{2}\ \ b)\dfrac{\sqrt{2}}{2}\ \ c)\dfrac{1}{2}\ \ d)2\ \ e)1$

2) $x \in \left(\dfrac{3\pi}{2}, 2\pi\right)$ *ve* $\tan x = -\dfrac{12}{5}$ *ise*

$Sin(x-\pi) + Cos(\dfrac{7\pi}{2} + x) = ?$

$a)\dfrac{12}{13}\ \ b)\dfrac{5}{13}\ \ c)1\ \ d)0\ \ e)-\dfrac{12}{13}$

3) $\tan 20^0 = x$ *ise* $\tan 110^0 = ?$

$a)-\dfrac{1}{x}\ \ b)-x\ \ c)x\ \ d)\dfrac{1}{x}\ \ e)10$

4) $Cot220^0 + Cot(-50^0) = ?$

$a)2Co\sec 10^0\ \ b)2Sec10^0\ \ c)2\tan 10^0$

$d)2Cot10^0\ \ e)2Cos10^0$

5) $Sin3x.Co\sec x + Cos3x.Secx = ?$

$a)2Sin4x\ \ b)Sin4x\ \ c)\ 4Sinx$

$d)8Sinx.Cosx\ \ e)4Cos2x$

6) $Cos\left(\dfrac{\pi}{4} + x\right) + Cos\left(\dfrac{\pi}{4} - x\right) = \dfrac{1}{2}$ olduğuna göre

$Cosx = ?$

$a)\dfrac{\sqrt{2}}{2}\ \ b)\dfrac{\sqrt{2}}{4}\ \ c)\dfrac{\sqrt{2}}{6}\ \ d)\dfrac{\sqrt{2}}{8}\ \ e)\dfrac{\sqrt{2}}{10}$

7) $\tan(45-a) = b$ *ise* $\tan(45+a)$ *nin* b türünden değeri kaçtır?

$a)\dfrac{1}{b}\ \ b)b\ \ c)-b\ \ d)-\dfrac{1}{b}\ \ e)b+1$

8-) $Cos2\alpha = m$ *ise* $\tan^2\alpha = ?$

$a)\dfrac{1-m}{1+m}\ \ b)\dfrac{1+m}{1-m}\ \ c)2m+1\ \ d)m^2-1\ \ e)1$

9-) $x - y = 30^0$ *ise*

$(Sinx - Siny)^2 + (Cosx - Cosy)^2 = ?$

$a)1\ \ b)3\ \ c)\sqrt{3}\ \ d)\ 2-\sqrt{3}\ \ e)3+\sqrt{5}$

10-) x bir dar acıdır. $\tan x = 3$ *ise*

$\dfrac{1}{2}Sin2x - Cotx = ?$

$a)-\dfrac{1}{30}\ \ b)-\dfrac{3}{25}\ \ c)-\dfrac{1}{20}\ \ d)-\dfrac{2}{15}\ \ e)-\dfrac{1}{10}$

11-) $\tan 255^0 = ?$

$a)1+\sqrt{3}\ \ b)\sqrt{3}-1\ \ c)2-\sqrt{3}$

$d)\ 3-\sqrt{3}\ \ e)\ 2+\sqrt{3}$

12-) $2Sinx - Cosx; = 0$ *ise* $Cos2x = ?$

$a)\dfrac{3}{\sqrt{13}}\ \ b)\dfrac{2}{\sqrt{5}}\ \ c)\dfrac{3}{5}\ \ d)\dfrac{2}{5}\ \ e)1$

13-) $\dfrac{Sin35^0}{Sin5} - \dfrac{Cos35^0}{Cos5^0} = ?$

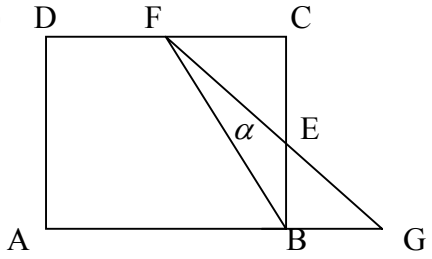
$a)\dfrac{\sqrt{3}}{2}\ b)\dfrac{1}{2}\ c)\ Sec10^0\ \ d)Co\sec 10^0\ \ e)\tan 10^0$

14-) $(1-\tan^2 15^0) = k.(1+\tan^2 15^0)$ *, ise* $k = ?$

$a)\dfrac{\sqrt{3}}{2}\ \ b)\dfrac{1}{2}\ \ c)1\ \ d)\sqrt{3}\ \ e)\dfrac{\sqrt{3}}{4}$

C&Ç *TRİGONOMETRİ 2 *C&Ç

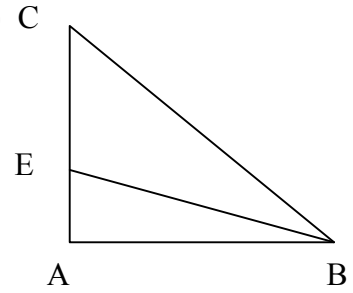
TRIGO NOMETRİ 3

1) 

ABCD Kare

$|FC| = |FD| = |EC| = |EB|$ *İSE* $Cot\alpha = ?$

$a)1 \;\; b)2 \;\; c)3 \;\; d)4 \;\; e)5$

2) 

$|AC| \perp |AB|$

$|BE| = |EC| \;\; ve \, Sin(BEA) = \frac{4}{5}$

İSE $\tan C = ?$

$a)\frac{3}{4} \;\; b)\frac{8}{15} \;\; c)\frac{2}{15} \;\; d)\frac{1}{4} \;\; e)\frac{1}{2}$

3-) $\frac{Cos^4 75 + Sin^4 75}{Sin60^0} = ?$

$a)\frac{7\sqrt{3}}{12} \;\; b)0 \;\; c)\frac{1}{2} \;\; d)1 \;\; e)\frac{\sqrt{3}}{2}$

4-) $Sin(x-\pi) + Cos(\frac{7\pi}{2} + x) = ?$

$a)\frac{1}{2} \;\; b)0 \;\; c)\frac{1}{2} \;\; d)1 \;\; e)\frac{\sqrt{3}}{2}$

5-) $Sin(-42^0).Sin(-48^0) = x \;\; ise \; x = ?$

$a)\frac{1}{2}Cos42^0 \;\; b)\frac{1}{2}Sin14^0 \;\; c)\frac{1}{2}Cos6^0$

$d)Sin6^0 \;\; e)2Sin6^0$

C&Ç *TRİGONOMETRİ 3 *C&Ç

6) $Sin\frac{x}{2} = \frac{\sqrt{3}}{2} \;\; ve \; 0 < x < \pi \;\; \cos\frac{x}{2} = ?$

$a)\frac{1}{3} \;\; b)\frac{1}{2} \;\; c)1 \;\; d)2 \;\; e)3$

7-) $\frac{2}{\tan x + \cot x} = ?$

$a)Sin2x \;\; b)Cos2x \;\; c)\tan 2x$

$d)Sec2x \; e) \; 0$

8-) x bir dar açıyı belirtmektedir

$Cos2x = \frac{1}{3} ise \; Cos2x = ?$.

$a)\sqrt{\frac{3}{2}} \;\; b)\sqrt{\frac{2}{3}} \;\; c)\sqrt{2} \;\; d)\sqrt{3} \;\; e)\sqrt{6}$

9-) x in tanımlı olduğu değerler için $\frac{Cos2x+1}{Sin^2 2x} = ?$

$a)\frac{1}{2}Sin^2 x \; b)\frac{1}{2}Cos^2 x \;\; c)\frac{1}{2}\tan^2 x$

$d)\frac{1}{2}Sec^2 x \; e)\frac{1}{2}Co\sec^2 x$

10-) $\frac{1+\tan^2 15^0}{1-\tan^2 15} = ?$

$a)0 \;\; b)1 \;\; c)-1 \;\; d)\frac{\sqrt{3}}{2} \;\; e)\frac{2}{\sqrt{3}}$

11-) $\frac{Cos^4\frac{x}{2} - Sin^4\frac{x}{2}}{1 - 2Sin^2\frac{x}{2}} = ?$

$a)-1 \;\; b)1 \;\; c)\frac{1}{2} \;\; d)-\frac{1}{2} \;\; e)\frac{\sqrt{2}}{2}$

12-) x bir dar açıdır. $Cosx = \frac{1}{2} \; ise \;\; \tan 2x = ?$

$a)2\sqrt{2} \;\; b)-2\sqrt{2} \;\; c)-\frac{3\sqrt{2}}{4} \;\; d)-\frac{5\sqrt{2}}{3} \;\; e)-\frac{4\sqrt{2}}{7}$

13-) $Cos75^0.\cos 15^0 - Sin75^0.Sin15^0 = ?$

$a)\frac{1}{3}(\sqrt{6} - 2\sqrt{2}) \;\; b)\frac{1}{3}(\sqrt{6} + 2\sqrt{2})$

$c)1 \;\; d)0 \;\; e)2 - 3\sqrt{2}$