



1. Aşağıdakilerden hangileri doğrudur?

- I) $\sin(a - b) = \sin a \cdot \cos b - \sin b \cdot \cos a$
 II) $\cos(a - b) = \cos a \cdot \cos b + \sin a \cdot \sin b$
 III) $\tan(a - b) = \frac{\tan a + \tan b}{1 - \tan a \cdot \tan b}$

- A) I B) II C) III D) I,II E) I,III



2. $\cos 105$ kaç eşittir?

(İpucu : $\cos 75 = \sin(60+45)$)

- A) $\frac{\sqrt{6} + \sqrt{3}}{4}$ B) $\frac{\sqrt{2} - \sqrt{6}}{4}$ C) $\frac{\sqrt{6} - \sqrt{2}}{2}$

- D) $\frac{\sqrt{3} + 1}{2}$ E) $\frac{\sqrt{3} - 1}{4}$

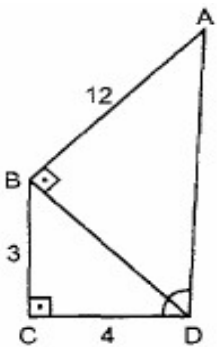


3. $\frac{\sin 70 \cdot \cos 30 + \sin 30 \cdot \cos 70}{\cos 70 \cdot \cos 10 - \sin 70 \cdot \sin 10}$ kaç eşittir?

- A) -1 B) 0 C) 2 D) $\cot 40$ E) $\tan 80$



4.

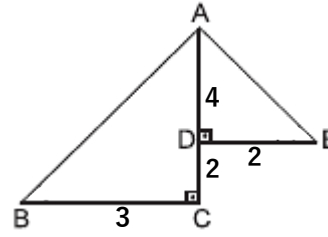


Yandaki BCD ve DBA dik üçgenlerine göre $\sin(\angle CDA)$ kaç eşittir?



- A) $\frac{29}{49}$ B) $\frac{33}{56}$ C) $\frac{39}{56}$ D) $\frac{47}{65}$ E) $\frac{63}{65}$

5.



Yandaki BCA ve ADE dik üçgenlerine göre $\cos(\angle BAE)$ kaç eşittir?

- A) $\frac{1}{10}$ B) $\frac{1}{5}$ C) $\frac{3}{10}$ D) $\frac{4}{5}$ E) $\frac{3}{5}$



6. $\frac{\cos 55 \cdot \sin 10 - \sin 55 \cdot \cos 10}{\sin 20 \cdot \sin 25 - \cos 20 \cdot \cos 25}$ kaç eşittir?

- A) $-\frac{1}{2}$ B) 0 C) 1 D) $\sqrt{3}$ E) 2



7. $\frac{\sin 70 \cdot \cos 40 + \sin 40 \cdot \sin 20}{\tan 70} \cdot \operatorname{cosec} 20$ kaç eşittir?

- A) -2 B) 0 C) $\frac{1}{2}$ D) 1 E) $\sqrt{3}$



8. $x - y = \frac{\pi}{6}$ ise

$(\cos x + \cos y)^2 + (\sin x + \sin y)^2$ kaç eşittir?

- A) 0 B) 1 C) 2 D) 3 E) $2 + \sqrt{3}$





9. Aşağıdakilerden hangisi $\tan(a - b)$ nin eşitidir?

- A) $\frac{\tan a - \tan b}{1 + \tan a \cdot \tan b}$ B) $\frac{\tan a + \tan b}{1 - \tan(a + b)}$ C) $\frac{\tan a}{\tan b}$
 D) $\frac{1 + \tan a}{1 + \tan b}$ E) $\frac{\tan a \cdot \tan b}{\tan a + \tan b}$



10. $\frac{\tan 18 + \tan 5}{1 - \tan 18 \cdot \tan 5} \cdot \frac{\tan 70 - \tan 3}{1 + \tan 70 \cdot \tan 3}$

ifadesi kaç eşittir?

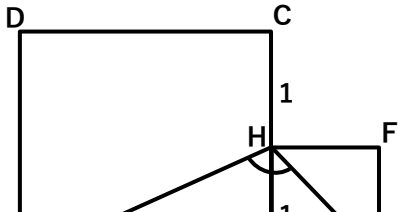
- A) -1 B) 0 C) $\frac{\sqrt{2}}{2}$ D) 1 E) $\frac{3}{2}$



11. $\tan x = 2$ $\tan y = 3$ ise $\cot(x - y)$ kaçtır?

- A) -7 B) -2 C) $\frac{1}{6}$ D) 3 E) 5

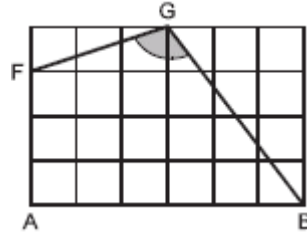


12.  Yandaki ABCD ve BEFH karelerine göre $\tan(\text{AHE})$ kaç eşittir?



- A) -3 B) 1 C) $\frac{3}{2}$ D) 2 E) 3

13.

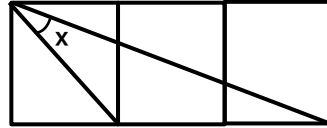


Yanda birim karelerden oluşmuş şekilde $\cot(\text{FGB})$ kaç eşittir?

- A) -3 B) $-\frac{1}{2}$ C) $-\frac{1}{3}$ D) $\frac{1}{2}$ E) 2



14.

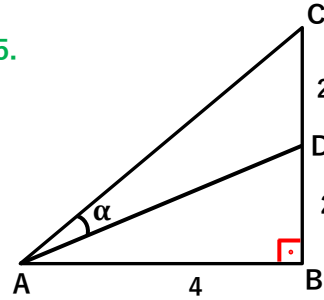


Yanda birim karelerden oluşmuş şekilde $\tan x$ kaç eşittir?

- A) -3 B) $-\frac{1}{2}$ C) $-\frac{1}{3}$ D) $\frac{1}{2}$ E) 2



15.

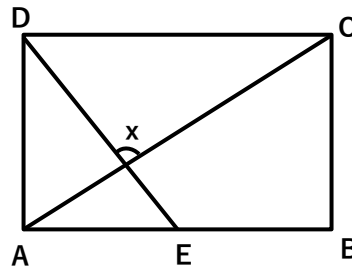


Yandaki ABC dik üçgeninde $\tan \alpha$ kaç eşittir?

- A) $-\frac{1}{2}$ B) $\frac{1}{3}$ C) $\frac{3}{4}$ D) 1 E) $\frac{7}{4}$



16.



Yandaki ABCD dikdörtgeninde $\text{IAEI} = \text{IEBI} = \text{IADI}$ ise $\tan x$ kaç eşittir?

- A) -3 B) -1 C) $\frac{3}{2}$ D) $\frac{5}{4}$ E) 3



Daha fazla test ve konu anlatımı için



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