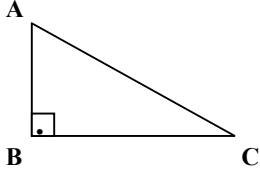


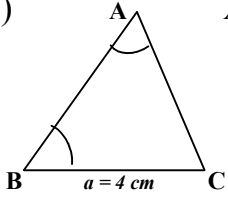
B Grubu

- 1) Şekilde verilen ABC dik üçgeninde $\sin(\hat{A}) = \sin(\hat{C})$ ise $\sin(\hat{C})$ kaçtır ?



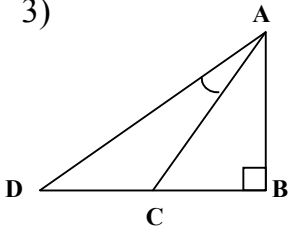
- a) $\frac{1}{\sqrt{2}}$ b) $\sqrt{5}$ c) $\frac{\sqrt{2}}{5}$ d) 1 e) $\frac{1}{2}$

- 2) ABC üçgeninde $m(\hat{A}) = 30^\circ$, $m(\hat{B}) = 45^\circ$, $|BC| = 4$ cm ise $|AC|$ kaç cm'dir ?



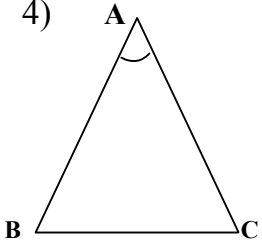
- a) 4 b) $2\sqrt{2}$ c) 5 d) $2\sqrt{3}$ e) $4\sqrt{2}$

- 3) ABD dik üçgeninde $|AD| = 13$ cm, $|DC| = 7$ cm, $|CB| = 5$ cm ise $\tan(\hat{DAC})$ kaçtır ?



- a) $\frac{7}{5}$ b) 1 c) $\frac{7}{17}$ d) -1 e) $-\frac{5}{12}$

- 4) ABC üçgeninde $|BC| = 6$ cm, $|AB| = |AC| = 5$ cm ise $\tan(\hat{A})$ kaçtır ?



- a) $\frac{3}{5}$ b) $\frac{24}{7}$ c) $\frac{5}{6}$ d) $\frac{5}{36}$ e) $\frac{3}{4}$

- 5) $4 \cdot \cos 15^\circ \cdot \sin 75^\circ$ çarpımının sonucu kaçtır ?

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

- 6) Aşağıdakilerden hangisi yanlıştır ?

- a) $\cos 15^\circ - \cos 25^\circ > 0$
b) $\cos 270^\circ + \cos 90^\circ = 0$
c) $\cos^2 15^\circ + \cos^2 75^\circ = 1$
d) $\cos 15^\circ + \sin 15^\circ = 1$
e) $\cos 90^\circ + \sin 90^\circ = 1$

- 7) $\sin^4 15^\circ - \cos^4 15^\circ$ ifadesinin sonucu kaçtır ?

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

- 8) $\tan(\arcsin \frac{\sqrt{3}}{2}) - \cot(\arcsin \frac{1}{2})$ farkı kaçtır ?

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

- 9) $\arctan(x - 1) = 60^\circ$ ise x kaçtır ?

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

- 10) $\sin 20^\circ = x$ ise $\sin 500^\circ$ x cinsinden kaçtır ?

- a) $2 \cdot \sqrt{\chi - 1}$ b) $2 \cdot \chi \cdot \sqrt{1 - \chi^2}$ c) χ^2 d) χ^3 e) $\chi + 1$

- 11) Aşağıdakilerden hangisi yanlıştır ?

- a) $\cos 15^\circ = \sin 75^\circ$
b) $\tan 15^\circ = \cot 15^\circ$
c) $\cos 145^\circ = -\cos 35^\circ$
d) $\tan 20^\circ = \frac{1}{\cot 20^\circ}$
e) $\cos^2 72^\circ = \sin^2 18^\circ$

- 12) $\sin x + \cos x = \frac{4}{3}$ ise $\sin 2x$ kaçtır ?

- a) $\frac{1}{3}$ b) $\frac{9}{7}$ c) $-\frac{1}{3}$ d) $\frac{5}{36}$ e) $\frac{7}{9}$

13) $\frac{\sin 2x}{1 + \cos 2x}$ *en sade biçimi hangisidir?*

- a) $\cos 2x$ b) $\csc 2x$ c) $\cot x$ d) $\tan x$ e) $\sin 2x$

14) $\frac{\cos 3x}{\sin x} + \frac{\sin 3x}{\cos x}$ *en sade biçimi hangisidir?*

- a) $2\cot 2x$ b) $\cot 2x$ c) $\tan 2x$ d) $\tan x$ e) $2\sin 2x$

15) $\sin x = \frac{1}{3}$ *ise* $\sin(45^\circ + x) \cdot \sin(45^\circ - x)$ *çarpımının değeri kaçtır?*

- a) $\frac{6}{7}$ b) $\frac{7}{18}$ c) $\frac{7}{10}$ d) $\frac{5}{36}$ e) $-\frac{1}{3}$

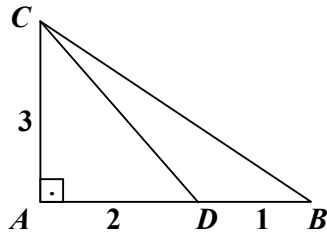
16) $\sin \frac{2\pi}{5}$, $\cos \pi$, $\sin \frac{10\pi}{7}$, $\tan \frac{5\pi}{6}$ *değerlerinin işaretleri sırayla hangisidir?*

- a) + - + + b) - + - - c) + - - - d) + - - - e) - - + +

17) $\frac{\cos 75^\circ + \sin 75^\circ}{\sin 75^\circ - \cos 75^\circ}$ *ifadesinin değeri kaçtır?*

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

18)



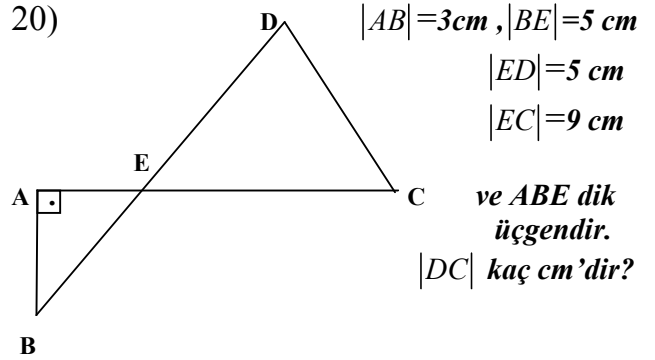
ABC dik üçgeninde $|AC| = 3 br$, $|AD| = 2 br$, $|DB| = 1 br$, $m(\hat{B}) = y$, $m(\hat{ACD}) = x$ *ise* $\tan(x + y)$ *nin değeri kaçtır ?*

- a) 15 b) -15 c) $\frac{7}{9}$ d) $\frac{13}{5}$ e) 5

19) $\frac{1}{\sin 10^\circ} - \frac{\sqrt{3}}{\cos 10^\circ}$ *ifadesinin değeri kaçtır?*

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

20)



- a) 5 b) $2\sqrt{6}$ c) $\sqrt{34}$ d) 9 e) $2\sqrt{3}$

B grubu Cevap Anahtarı					
	a	b	c	d	e
1	o	o	o	o	o
2	o	o	o	o	o
3	o	o	o	o	o
4	o	o	o	o	o
5	o	o	o	o	o
6	o	o	o	o	o
7	o	o	o	o	o
8	o	o	o	o	o
9	o	o	o	o	o
10	o	o	o	o	o
11	o	o	o	o	o
12	o	o	o	o	o
13	o	o	o	o	o
14	o	o	o	o	o
15	o	o	o	o	o
16	o	o	o	o	o
17	o	o	o	o	o
18	o	o	o	o	o
19	o	o	o	o	o
20	o	o	o	o	o

Agrubu	Bgrubu
1-d	1-a
2-a	2-e
3-d	3-c
4-e	4-b
5-e	5-a
6-c	6-d
7-e	7-c
8-d	8-b
9-a	9-d
10-c	10-b
11-c	11-b
12-b	12-e
13-c	13-d
14-d	14-a
15-e	15-b
16-c	16-d
17-a	17-b
18-b	18-e
19-a	19-c
20-a	20-c