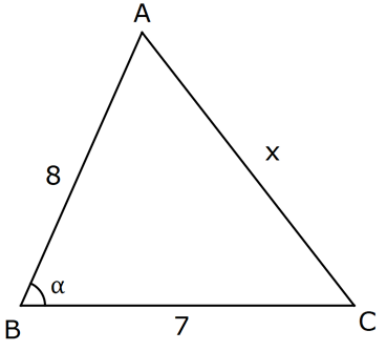


TRİGONOMETRİ -1 (11.SINIF) – (KOSİNÜS VE SİNÜS TEOREMİ)

1)

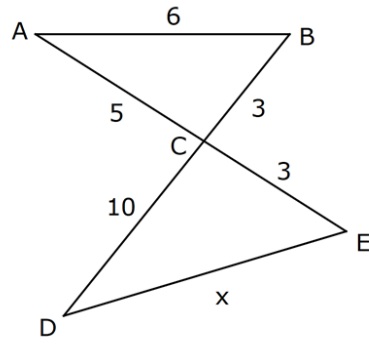


ABC üçgen
 $|AB| = 8 \text{ cm}$
 $|BC| = 7 \text{ cm}$
 $|AC| = x$
 $\cos \alpha = \frac{1}{4}$

Yukarıda verilenlere göre, x kaç cm dir?

- A) $3\sqrt{7}$ B) 8 C) $5\sqrt{3}$ D) $\sqrt{85}$ E) $6\sqrt{6}$

3)

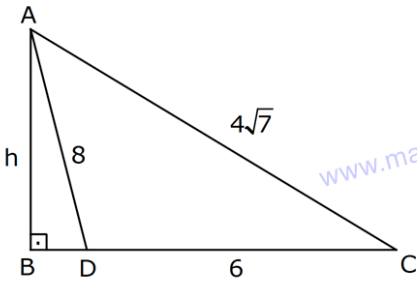


$[AE] \cap [DB] = \{C\}$
 $|AB| = 6 \text{ cm}$
 $|AC| = 5 \text{ cm}$
 $|CE| = 3 \text{ cm}$
 $|BC| = 3 \text{ cm}$
 $|DC| = 10 \text{ cm}$
 $|DE| = x$

Yukarıda verilenlere göre, x kaç cm dir?

- A) 10 B) $\sqrt{106}$ C) 11 D) $4\sqrt{7}$ E) $\sqrt{113}$

2)

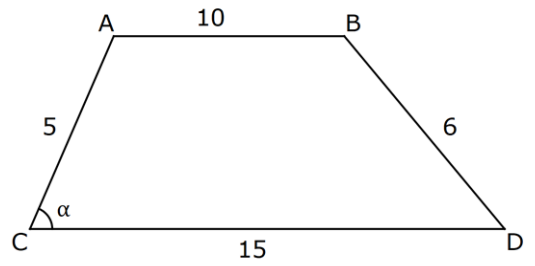


ABC üçgen
 $|AD| = 8 \text{ cm}$
 $|DC| = 6 \text{ cm}$
 $|AC| = 4\sqrt{7} \text{ cm}$
 $|AB| = h$

Yukarıda verilenlere göre, h kaç cm dir?

- A) $3\sqrt{7}$ B) 8 C) $5\sqrt{3}$ D) $\sqrt{85}$ E) $6\sqrt{6}$

4)



AB // CD ve $|AB| = 10 \text{ cm}$, $|AC| = 5 \text{ cm}$, $|BD| = 6 \text{ cm}$ ve $|CD| = 15 \text{ cm}$ olan ABCD yamuğunda $\cos \alpha$ kaçtır?

- A) $\frac{5}{6}$ B) $\frac{7}{25}$ C) $\frac{3}{4}$ D) $\frac{15}{17}$ E) $\frac{11}{15}$

5)

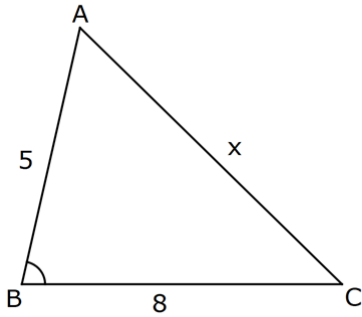
Bir ABC üçgeninin iç açılarının ölçüleri A, B ve C açılarıdır ve karşısındaki kenarlar sırasıyla a, b ve c kenarlarıdır.

$$b^2 = (a+c)^2 - ac$$

olduğuna göre, B açısı kaç derecedir?

- A) 30 B) 45 C) 60 D) 90 E) 120

6)

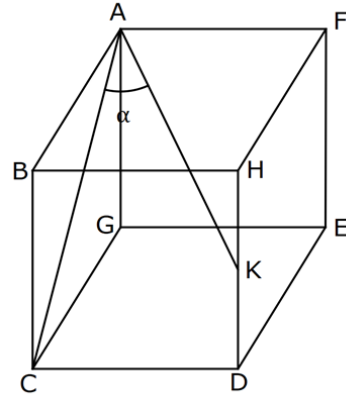


ABC üçgen
 $|AB| = 5 \text{ br}$
 $|BC| = 8 \text{ br}$
 $|AC| = x \text{ br}$

B açısı 60° den büyük olduğuna göre, x'in alabileceği kaç farklı tam sayı değeri vardır?

- A) 3 B) 4 C) 5 E) 6 D) 7

7)

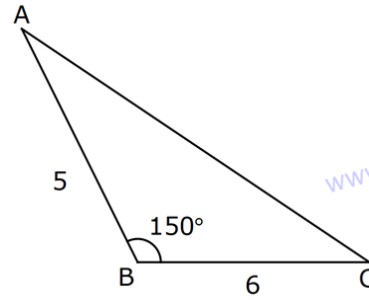


ABCDEFGH küp
 $|HK| = |KD|$
 $m(\widehat{CAK}) = \alpha$

Yukarıda verilenlere göre, α kaç derecedir?

- A) 15 B) 30 C) 45 D) 60 E) 75

8)

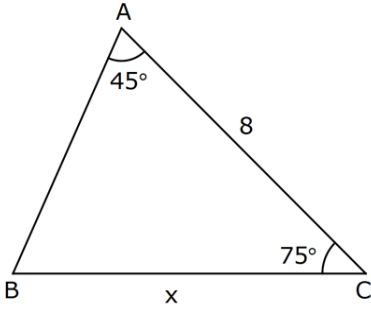


ABC üçgen
 $|AB| = 5 \text{ br}$
 $|BC| = 6 \text{ br}$

Yukarıda verilenlere göre, A(ABC) kaç br^2 dir?

- A) $\frac{15}{2}$ B) 8 C) $\frac{18}{5}$ D) $\frac{13}{2}$ E) 15

9)

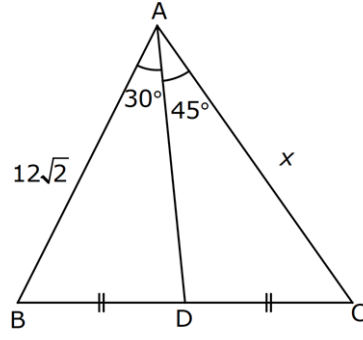


ABC üçgen
 $m(\widehat{BAC}) = 45^\circ$
 $m(\widehat{ACB}) = 75^\circ$
 $|AC| = 8$ cm

Yukarıda verilenlere göre, x kaç cm dir?

- A) $2\sqrt{14}$ B) $\frac{5\sqrt{3}}{2}$ C) $4\sqrt{6}$ D) $\frac{8\sqrt{6}}{3}$ E) $8\sqrt{3}$

11)

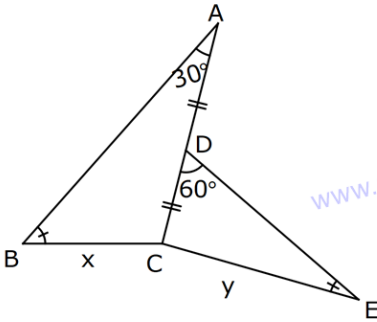


ABC üçgen
 $|BD| = |DC|$
 $|AB| = 12\sqrt{2}$ cm
 $|AC| = x$
 $m(\widehat{BAD}) = 30^\circ$
 $m(\widehat{DAC}) = 45^\circ$

Yukarıda verilenlere göre, x kaç cm dir?

- A) 6 B) 8 C) 10 D) 12 E) 15

10)

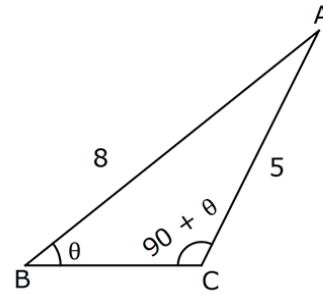


$m(\widehat{BAC}) = 30^\circ$
 $m(\widehat{CDE}) = 60^\circ$
 $m(\widehat{ABC}) = m(\widehat{DCE})$
 $|BC| = x$
 $|CE| = y$
 $|AD| = |DC|$

Yukarıda verilenlere göre, $\frac{x}{y}$ oranı kaçtır?

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

12)



ABC üçgen
 $|AB| = 8$ cm
 $|AC| = 5$ cm
 $m(\widehat{ABC}) = \theta$
 $m(\widehat{ACB}) = 90 + \theta$

Yukarıda verilenlere göre, $\cot \theta$ kaçtır?

- A) $\frac{5}{8}$ B) $\frac{8}{5}$ C) $\frac{3}{5}$ D) $\frac{5}{3}$ E) $\frac{25}{64}$

CEVAP ANAHTARI

1	D	5	E	9	D
2	A	6	C	10	E
3	E	7	C	11	D
4	B	8	A	12	B