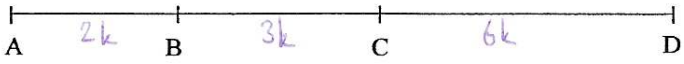
2007-2008 EĞİTİM-ÖĞRETİM YILI AYDIN ATATÜRK ANADOLU LİSESİ
10/G SINIFI GEOMETRİ DERSİ 1.DÖNEM 1. YAZILI SINAVI SORULARI

ADI-SOYADI: **NO:** **ALDIĞI NOT:**

1.



$3|AB| = 2|BC| = |CD| = 6k$

$|AC| + |BD| = 28$ olduğuna göre, $|AD|$ kaç birimdir?

$|AC|+|BD| = 28$

$5k + 9k = 28$

$14k = 28$

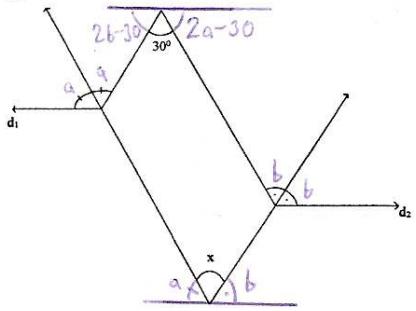
$k = 2$

$|AD| = 11k$

$= 11 \cdot 2$

$= \boxed{22}$

2.



$d_1 \,//\, d_2$ olduğuna göre, x kaç derecedir?

$2a-30+30+2b-30 = 180°$

$2a+2b = 210°$

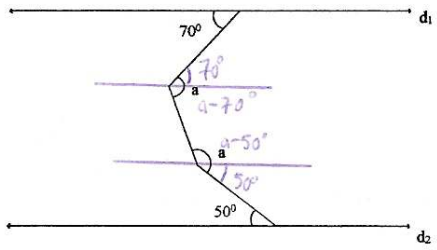
$a+b = 105°$

$a+b+x = 180°$

$105+x = 180°$

$\boxed{x = 75°}$

3.



$d_1 \,//\, d_2$ olduğuna göre, a kaç derecedir?

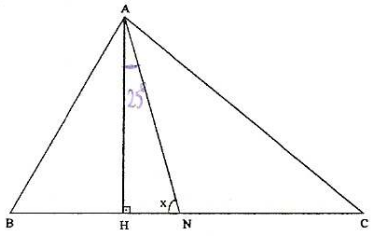
$a-70+a-50 = 180°$

$2a-120 = 180°$

$2a = 300°$

$\boxed{a = 150°}$

4.



ABC bir üçgen

$[AH]$ yükseklik,

$[AN]$ açıortay,

$m(\hat{B}) - m(\hat{C}) = 50°$

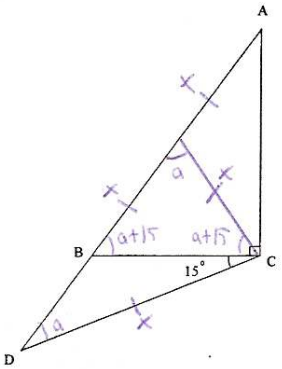
olduğuna göre, $m(\widehat{ANB})$ kaçtır?

$m(\hat{HAN}) = \frac{m(B)-m(C)}{2} = \frac{50}{2} = 25°$

$25+x = 90°$

$\boxed{x = 65°}$

5.



$[AC] \perp [BC]$

$m(\widehat{DCB}) = 15°$

$2|DC| = |BA|$

olduğuna göre, $m(\hat{A})$ kaç derecedir?

$a+a+15+a+15 = 180$

$3a = 150$

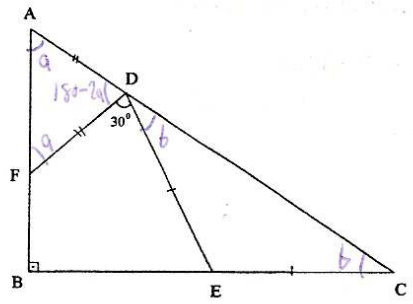
$a = 50$

$\hat{ABC}$'de

$65+90+m(\hat{A}) = 180°$

$m(\hat{A}) = \boxed{25°}$

6.



$|AD| = |DF|$

$|DE| = |EC|$

$m(\widehat{FAD}) = ?$

$180-2a+30+b=180$ $\quad a+b+90=180$

$2a-b=30$ $\quad a+b=90$

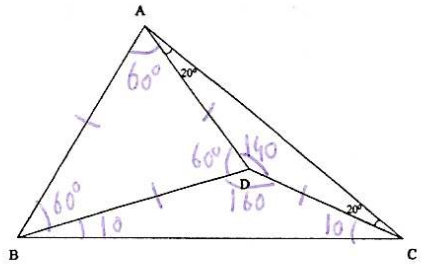
$2a-b=30$

$+\ a+b=90$

$3a=120$

$\boxed{a=40^\circ}$

7.



ABD eşkenar üçgen

olduğuna göre

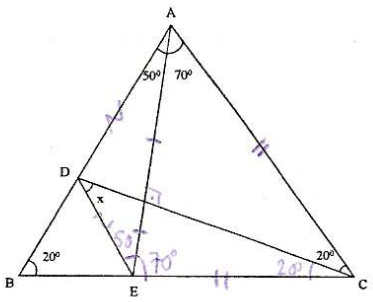
$m(\widehat{ABC}) = ?$

$60+140=200^\circ$

$360-200=160^\circ$

$60+10=\boxed{70^\circ}$

8.



$m(\widehat{BAE}) = 50°$

$m(\widehat{EAC}) = 70°$

$m(\widehat{ABC}) = 20°$

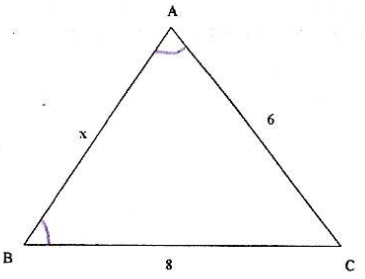
$m(\widehat{ACD}) = 20°$

Verilenlere göre x kaç derecedir?

$50+x=90$

$\boxed{x=40^\circ}$

9.



$m(\hat{B}) > 60°$ olduğuna göre, x' in alabileceği tamsayı değerleri toplamı kaçtır?

$m(\hat{B})>60^\circ \quad (a>b \Rightarrow m(\hat{A})>m(\hat{B}))$

$m(\hat{A})>60^\circ$

$m(\hat{A})$ ve $m(\hat{B})$ 60° büyük ise $m(\hat{C})<60^\circ$ Buradan $x<6$

$8-6<x<6+8$

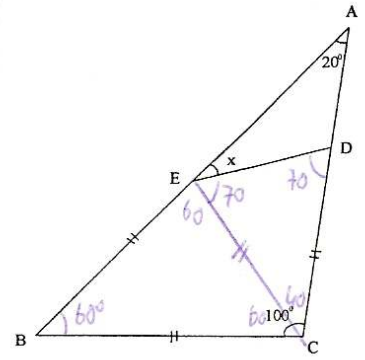
$2<x<14$

$2<x<6$

$x=3,4,5$

$3+4+5=\boxed{12}$

10.



$|EB| = |BC| = |CD|$

x=?

$60+70+x=180^\circ$

$130+x=180^\circ$

$\boxed{x=50^\circ}$

Not: Sınav süresi 45 dakika, her sorunun doğru cevabı 10 puandır. Başarılar dilerim.

Ahmet KÂHYA