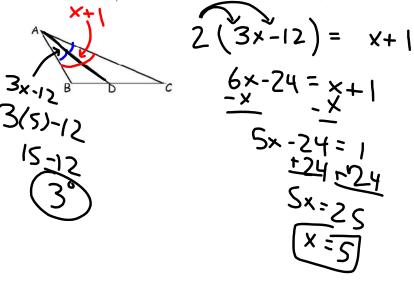


3. \angle BAC is bisected by AD. If \angle BAD = 3x - 12 and \angle BAC = x + 1, what is the measure of \angle BAD?

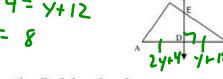


HW: EVENS, #11 **Partner Practice** Name the special segment for 1-4 2) HE 1) AC JL altitu median angle ictor

5) Sketch a triangle in which the median is also the altitude.

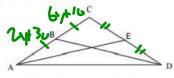
6) In $\triangle ABC$, \overrightarrow{DE} is perpendicular bisector of \overrightarrow{AC} with D on \overrightarrow{AC} . If AD = 2y + 4, CD = y + 12, and $m \angle EDC = 5(x - 12)^\circ$. Find the value of x and y. Find length of AD, DC, and, AC.

2 4+ 4= 4+12 Y= 8



7) **DB** is an altitude of $\triangle ADC$, and $m \angle DBC = (n^2 + 81)^\circ$. Find the value of n.

- C R
- 8) **DB** and **AE** are medians. If BC = 6y + 10, AB = 2y+30 CE = 6x + 12, ED = 2x + 60, then find the value of x and y, and the length of the segments.



9) **YB** is an altitude of ΔXYZ , and $m \angle YBZ = (6x - 6)^{\circ}$. Find the value of x. What is the measure of ∠YBZ?

