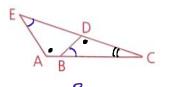
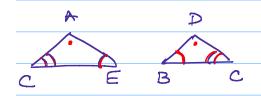
Note Title 1/13/2016

Problem Set A

1 Given: $\angle DBC \cong \angle E$

Conclusion: $\angle A \cong \angle BDC$





S

1. ∠DBC =∠E

1. Gua

2. 4CZ1C

3. ZA \ ZBDC

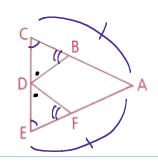
2. REF

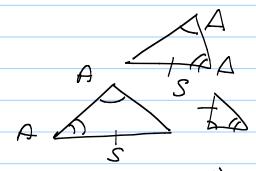
3. No CHOICE → If 2 Ls in 1 Dare \(\text{Y}\)
to 2 Ls in another \(\text{D}\)
Then the 3rd \(\text{LS}\) are \(\text{Y}\)

3 Given: $\overline{AC} \cong \overline{AE}$,

 $\angle CBD \cong \angle EFD$

Prove: $\angle BDC \cong \angle FDE$





I, AC = AE

1. GIVEN

J. LC ELE

2, ≥> →

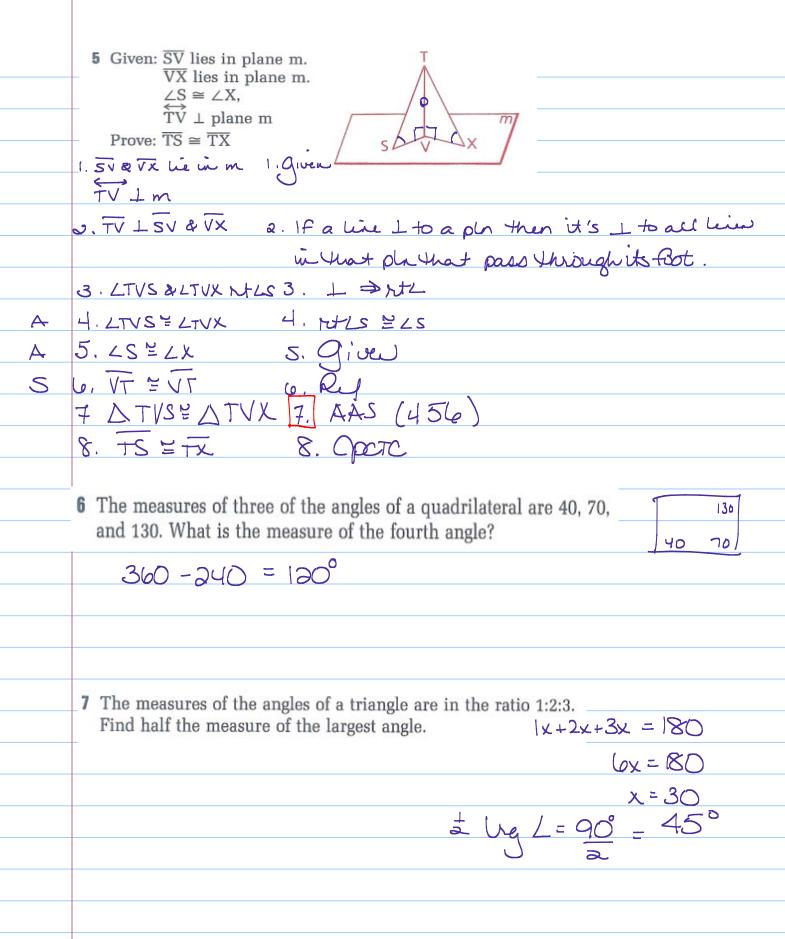
3. LCBDY LEFD

3. Given

4. LBDC YEDE

4. No Choice



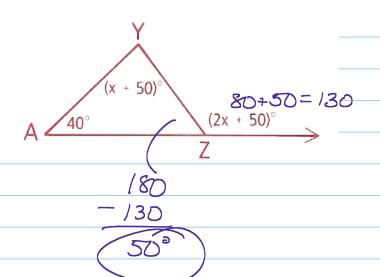


9 Given: Diagram as marked

Find: m∠YZA

ExtL = sum remote untLs2x+50 = x+90

$$\chi = 40^{\circ}$$



10 Given: C is the midpt. of \overline{BD} .

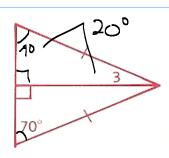
E is the midpt. of \overline{BF} .

$$DF = 12$$

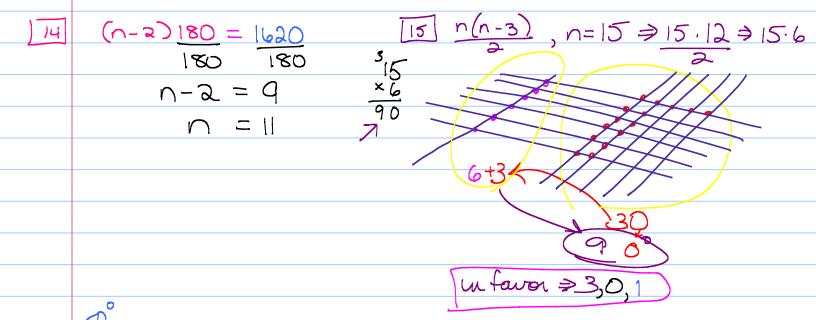
$$m\angle D = 80, m\angle B = 60$$

Find: CE, m∠BCE, and m∠BEC

11 Find $m \angle 3$ in the diagram as marked.



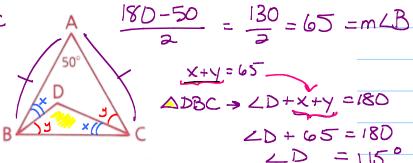
- 14 The sum of the measures of the angles of a polygon is 1620. Find the number of sides of the polygon.
- 15 Find the number of diagonals that can be drawn in a pentadecagon. $\bigcirc = 15$



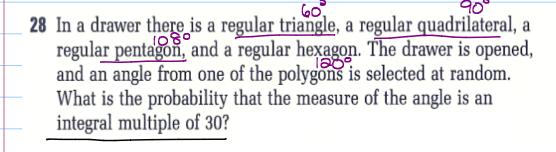
20 Given: $\overline{AB} \cong \overline{AC}$, $\rightarrow \angle B \cong \angle C$ $\angle DBC \cong \angle DCA$, $m\angle A = 50$

Find: m∠BDC

Ja+50=180 2a=130



- 1 Tell whether each statement is true Always, Sometimes, or Never (A, S, or N).
 - a An equiangular triangle is isosceles. A
 - The number of diagonals in a polygon is the same as the number of sides.
 - c An exterior angle of a triangle is larger in measure than any angle of a triangle.
 - d One of the base angles of an isosceles triangle has a measure greater than that of one of the exterior angles of the triangle.



$$180 - \frac{360}{5}$$