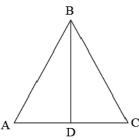
1.

Given:	$AB \cong CB$	, D is the midpoint of	AC

Prove: $\triangle ADB \cong$ Statements	Reasons	/
1. $\overline{AB} \cong \overline{CB}$	1.	
D is the midpoir 2.	2.Definition of a Midpoin	nt /
3.	3.Reflexive Property	A
4. $\triangle ADB \cong \triangle CDB$	4.	

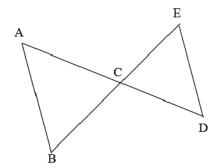


4. 
$$\triangle ADD = \triangle CDD$$

2. Given:  $\overline{AB} /\!/ \overline{DE}$ ,  $\overline{BC} \cong \overline{EC}$ 

	,
Prove:	$\triangle ABC \cong \triangle DEC$

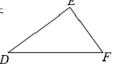
Prove: $\triangle ABC \cong \triangle DEC$ Statements	Reasons
1.	1.
2.	2.
3.	3.
4.	4.

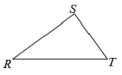


3. Write the slope-intercept form of the equation of the line passing through the point (4,-1) and parallel to y=-3/2 x -5.

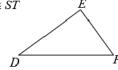
On problems 4-6, state an abbreviation of a postulate or theorem (SSS, SAS, AAS, ASA, HL) that you could use to prove that  $\triangle DEF \cong \triangle RST$ . If none, write "none".

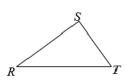
4. 
$$\overline{DE} \cong \overline{RS}, \overline{EF} \cong \overline{ST}, \overline{DF} \cong \overline{RT}$$



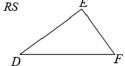


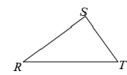
5. 
$$\angle D \cong \angle R$$
,  $\angle E \cong \angle S$ ,  $\overline{DE} \cong \overline{ST}$ 





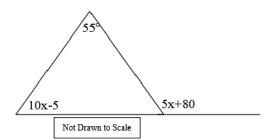
6. 
$$\angle F \cong \angle T$$
,  $\overline{DF} \cong \overline{RT}$ ,  $\overline{DE} \cong \overline{RS}$ 





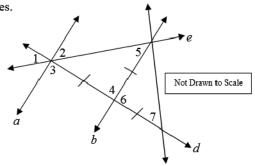
7. Find the value of x.

8. Given  $\Delta DES$ ,  $\overline{DE} \cong \overline{ES}$  and  $m < D = 48^{\circ}$ Find  $m \le E$ .



9. Find all of the numbered angles.

Given: a//b;  $m \angle 5 = 63^{\circ}$ 



10. Find *x*. 4x+12

11. Solve  $5x^2 + 13x = 6$ 

For 12-14, it may help to draw your own picture for each.

- 12. In  $\triangle QRS$ , if  $\overline{QS}$  is the hypotenuse, which angle is the right angle?
- 13. In  $\triangle QRS$ , the side that lies opposite <S is \_\_\_\_\_.
- 14. In  $\triangle QRS$ , if  $\overline{SR} \cong \overline{QR}$ , then <  $\underline{\underline{}} \cong \underline{\underline{}}$ .
- 15. Change this equation to **STANDARD FORM**.  $y = \frac{4}{3}x + \frac{7}{2}$

$$y = \frac{4}{3}x + \frac{7}{2}$$