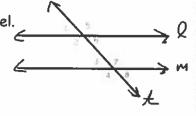
Corresponding Angles Conv  Given: 21=23 or 20  25=27 or 2  Conclusion: 2//m	1=240r = 1	$ \begin{array}{c} 5 \\ 6 \\ 3 \\ 7 \end{array} $ M
Alternate Interior Angles Converse (		Reasons
Given: 22=27	1 42567	Gim
Prove: Q//m	2 24=27	Verl. 25 Thm
XIIIVC	3 22=24	Trans. Pro. de
	4 l/m	Corr. Ls Conu.

Given: Land L3 are 54p	$\rho \cdot \stackrel{\stackrel{1}{\smile} \stackrel{5}{\smile}}{\underset{4}{\smile} \stackrel{1}{\smile}} Q$
Statements	Reasons
1 L2 and L3 aresupp.	Given
2 Land Clarsupp.	2 Adl. Post.
3 21223	= Supp. Thom
4 2//m	Corr. Ls Converse

If two lines are cut by a transversal and alternate exterior angles are congruent, then the lines are parallel.

Given: ∠1 = ∠8

Prove: R//m



Statements

Reasons	S
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1_	21=28	Given
2	28=23	Vert. Ls Thin
3	∠1=23	Trans. Prop. of =
4	l//m	COTT. 65 Converse

If two lines are cut by a transversal and the same-side
exterior angles are supplementary, then the lines are parallel.

Given: 21:35 upp. 4024

Prove: 21/m

Statements

Reasons

1 21:55 upp. 4023

2 44:55 upp. 4023

2 44:55 upp. 4023

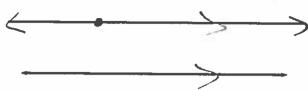
3 21=23

= Supp. Thrm.

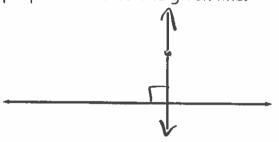
4 1//m

Corr. 25 Consume

Parallel - Through a point outside a line, there is exactly one line parallel to the given line.

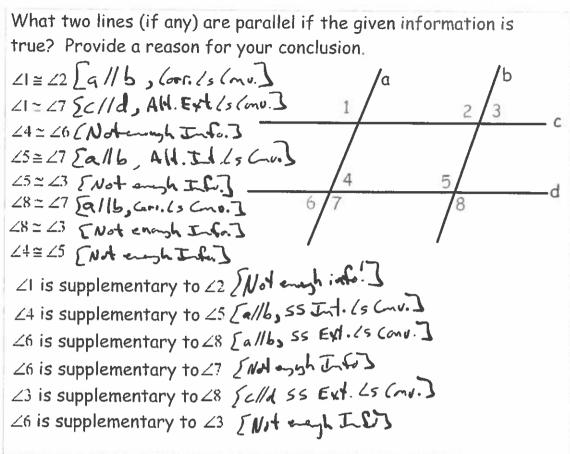


Perpendicular - Through a point outside a line, there is exactly Postulate one line perpendicular to the given line.



In a plane, two lines perpendicular to the same line are Parallel		
Given: LLt, mlt		
Prove: l//m	t	
Statements	Reasons	
1 llt, mlx	Given	
2 Ll and Ld are Rt. Ls	Oct. of 1	
3 4172	Rt. 15 Thm	
4 <i>l//m</i>	Corn 15 Converse	

Two lines parallel to a third line of Parallel to each other.	are Diagram! 77
Given: 5//m, a//m	€ 3/ >a
Prove: S//a	$\leftarrow 3$
Statements	Reasons 9
1 5//m, a//m	Given
2 21=13, 22=13	Corr. Ls Post.
3 21=12	Trans. Prop. of =
4 5//a	Corr. Ls Converse
5	



Assignment #24

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