§3.3 Prove Lines Are Parallel

Architects and contractors make extensive use of parallel lines in their plans and structures and require failsafe ways of constructing them. Consequently, the geometry of parallel lines and the knowledge of how to prove that lines are parallel is a significant aspect of the work that these people do.



Recap the postulate and 3 theorems about parallel lines and transversals that we learned in the previous lesson.







CONVERSE of ALTERNATE INTERIOR ANGLES THEOREM Prove: *l*1 ||*l*2 Statement Reason Given 21322 21223 V.A.T. 22223 Transitive/Subst. Propz Converse l'orresp. 2 CONVERSE of ALTERNA Given: $<1 \ge <2$ Prove: *l*1 ||*l*2 Statement Reason 21222 Given 22223 V.A.T. <1223 Transitive/Subst Prop 2
</pre>
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Converse Corresp. 4

