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1) $\angle 4 \cong \angle 5$, so $p \parallel q$ by Conv. Corr. $\angle$'s Post.

3) $m\angle 4 = 47°$; $m\angle 5 = 47°$; so $\angle 4 \cong \angle 5$. $p \parallel q$ by conv. corr. $\angle$'s post

5) $\angle 3$ & $\angle 4$ are supp. so $r \parallel s$ by conv. same side int $\angle$'s thm

7) $m\angle 4 = 61°$; $m\angle 8 = 61°$, so $\angle 4 \cong \angle 8$. $r \parallel s$ by conv. alt int $\angle$'s thm

9) $m\angle 2 = 132°$, $m\angle 6 = 132°$, so $\angle 2 \cong \angle 6$. $r \parallel s$ by conv. alt. ext $\angle$'s thm

11) $m\angle 1 = 60°$, $m\angle 2 = 60°$, so $\angle 1 \cong \angle 2$ by conv. alt int $\angle$'s thm, the landings are $\parallel$

13) $m\angle 4 = 54°$, $m\angle 8 = 54°$, so $\angle 4 \cong \angle 8$. $l \parallel m$ by conv corr $\angle$'s post.

15) $m\angle 1 = 55°$, $m\angle 5 = 55°$, so $\angle 1 \cong \angle 5$. $l \parallel m$ by conv. corr. $\angle$'s post

17) $\angle 2 \cong \angle 7$, so $n \parallel p$ by conv alt ext $\angle$'s thm

19) $m\angle 1 = 105°$, $m\angle 8 = 105°$, so $\angle 1 \cong \angle 8$. $n \parallel p$ by conv alt ext $\angle$'s thm

21) $m\angle 3 = 75°$, $m\angle 5 = 105°$, $75 + 105 = 180°$, so $\angle 3$ & $\angle 5$ are supp. $n \parallel p$ by conv. same side int $\angle$'s thm

23) If $x = 6$, then $m\angle 1 = 20°$ & $m\angle 2 = 20°$. So $\overline{DJ} \parallel \overline{EK}$ by conv. corr $\angle$'s post

25) conv. alt ext ∠'s thm

27) conv. corr ∠'s post.

29) conv. same side int ∠'s thm

31) m∥n; conv. same side int ∠'s thm

33) m∥n; conv. of alt. ext. ∠'s thm

35) ℓ∥n; conv. same side int. ∠'s thm