

pg 151 #'s 11-23, 26-29

11) No; you need to know that  $\angle MKJ \cong \angle MKL$ .

13) a)  $\angle A \cong \angle D$

b) Given

c)  $\angle C \cong \angle F$

d) AAS

15) Yes; E is a mdpt. So by def.  $\overline{BE} \cong \overline{CE}$  &  $\overline{AE} \cong \overline{DE}$ .  
 $\angle A$  &  $\angle D$  are  $\cong$  by right  $\angle \cong$  thm. So by def.

$\triangle ABE$  &  $\triangle DCE$  are right  $\triangle$ 's. So  $\triangle ABE \cong \triangle DCE$  by HL.

17)  $\triangle FEG \cong \triangle QSR$ ; rotation

19) a) no there is not enough info

b) HL

21)  $\triangle ABC$  &  $\triangle DEF$  are right  $\triangle$ 's (given).  $\overline{AC} \cong \overline{DF}$ ,  
 $\overline{BC} \cong \overline{EF}$ , &  $\angle C$  &  $\angle F$  are right  $\angle$ 's.  $\angle C \cong \angle F$  by  
right  $\angle$ 's  $\cong$  thm. Thus,  $\triangle ABC \cong \triangle DEF$  by SAS.

23) 1.  $\overline{KM} \perp \overline{JL}$  (given)

2.  $\angle JKM$  &  $\angle LKM$  are right  $\angle$ 's (def of  $\perp$ )

3.  $\angle JKM \cong \angle LKM$  (right  $\angle \cong$  thm)

4.  $\overline{JM} \cong \overline{LM}$ ,  $\angle JMK \cong \angle LMK$  (given)

5.  $\triangle JKM \cong \triangle LKM$  (AAS)

26) A

27) J

28) C

29) G

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1) A, B, D

2) C, E, F

3) A, B, C, D

4) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

5) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

6) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

7) H, I

8) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

9) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

10) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

11) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

12) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

13) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

14) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z

15) A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z