

- (1) $\triangle QPS, \triangle QSR$
- (2) $\triangle QPS$
- (3) $\triangle QPR$
- (4) $\triangle QPS$
- (5) $\triangle QSR$
- (6) $\triangle QPR$
- (7) $m\angle B = 48$
 $m\angle C = 16$
- (8) AAS
- (9) SAS
- (10) ASA
- (11) NO
- (12) HL
- (13) HL
- (14) SS
- (15) S
- (16) SO

- (1) C
- (2) D
- (3) B
- (4) B
- (5) B
- (6) C
- (7) B
- (8) D
- (9) A

(17)

1. $\overline{BD} \cong \overline{EC}$	1. GIVEN
2. $\overline{AC} \cong \overline{AD}$	2. GIVEN
3. $\angle 1 \cong \angle 2$	3. BASE ANGLE THEOREM
4. $\triangle ABD \cong \triangle AEC$	4. SAS
5. $\overline{AB} \cong \overline{AE}$	5. CPCTC

(18)

1. $\overline{XY} \parallel \overline{WZ}$	1. GIVEN
2. $\overline{XZ} \parallel \overline{WY}$	2. GIVEN
3. $\angle XZY \cong \angle WYZ$	3. DEF. OF ALTERNATE INTERIOR
4. $\overline{YZ} \cong \overline{YZ}$	4. REFLEXIVE PROPERTY
5. $\triangle XYZ \cong \triangle WZY$	5. ASA
6. $\angle X \cong \angle W$	6. CPCTC

(19) $\sqrt{5}$

(20) $(\frac{5}{2}, \frac{5}{2})$