

"20 more" KEY

WS#1

Blue

Statements	Reasons
1. $V \parallel W$	1. given
2. $\angle 1 \cong \angle 2$	2. alt. ext.
3. $\angle 2 \cong \angle 3$	3. given
4. $\angle 1 \cong \angle 3$	4. transitive

S	R
1. $\vec{OP} \parallel \vec{QR}$	1. given
2. \vec{OP} bis. $\angle AOB$	2. given
3. $\angle 1 \cong \angle 2$	3. Defn of bisector
4. \vec{QR} bis. $\angle BOD$	4. given
5. $\angle 3 \cong \angle 4$	5. Defn of bisector
6. $\angle 2 \cong \angle 3$	6. alt. int.
7. $\angle 1 \cong \angle 4$	7. transitive

S	R
1. $\overline{AB} \parallel \overline{ED}$	1. given
2. $\angle 2 \cong \angle 4$	2. alt. int.
3. $\angle 1 \cong \angle 5$	3. corresp.
4. $\angle 4 \cong \angle 5$	4. given
5. $\angle 1 \cong \angle 2$	5. substitution

S	R
1. $\overline{AB} \parallel \overline{GE}$	1. given
2. $\angle 1 \cong \angle 4$	2. corresp.
3. $\angle 6 \cong \angle 8$	3. corresp.
4. $\angle 1 \cong \angle 8$	4. substitution given
5. $\angle 6 \cong \angle 4$	5. substitution

S	R
1. $\overline{AB} \parallel \overline{FE}$	1. given
2. $\angle 1 \cong \angle 2$	2. alt. int.
3. $\overline{BC} \parallel \overline{DF}$	3. given
4. $\angle 2 \cong \angle 3$	4. alt. int.
5. $\angle 1 \cong \angle 3$	5. transitive

WS #2

pink

S	R
1. $\overrightarrow{CE} \parallel \overrightarrow{AB}$	1. given
2. $\angle 1 \cong \angle A$	2. Corresp.
3. $\angle A \cong \angle 2$	3. given
4. $\angle 1 \cong \angle 2$	4. transitive

S	R
1. \overline{AB} bis. $\angle CAD$	1. given
2. $\angle 2 \cong \angle 3$	2. Def'n of bisector
3. $\overline{CB} \parallel \overline{AD}$	3. given
4. $\angle 1 \cong \angle 3$	4. alt. int.
5. $\angle 1 \cong \angle 2$	5. transitive

S	R
1. $\overline{AC} \parallel \overline{DF}$	1. given
2. $\angle 1 \cong \angle 2$	2. alt. int.
3. $\overline{AB} \parallel \overline{FE}$	3. given
4. $\angle 4 \cong \angle 3$	4. alt. int.
5. $\angle 2 \cong \angle 3$	5. given
6. $\angle 1 \cong \angle 4$	6. transitive

④	S	R
	1. $\overline{AB} \parallel \overline{CD}$	1. given
	2. $\angle 1 \cong \angle 3$	2. alt. int.
	3. $\overline{FC} \parallel \overline{BE}$	3. given
	4. $\angle 2 \cong \angle 4$	4. corres.
	5. \overline{CF} bis. $\angle ACD$	5. given
	6. $\angle 2 \cong \angle 3$	6. Defn of bisector
	7. $\angle 1 \cong \angle 4$	7. transitive

⑤	S	R
	1. $\overline{AS} \parallel \overline{BT}$	1. given
	2. $\angle 2 \cong \angle 3$	2. alt. int.
	3. $\angle 1 \cong \angle 4$	3. corresp.
	4. $\angle 3 \cong \angle 4$	4. given
	5. $\angle 1 \cong \angle 2$	5. substitution

WS #3 **wold**

①	S	R
	1. $\angle 1 \cong \angle 2$	1. given
	2. $\angle 3 \cong \angle 1$	2. given
	3. $\angle 2 \cong \angle 3$	3. transitive
	4. $\overline{AB} \parallel \overline{DE}$	4. alt. int.

②	S	R
	1. $\overline{JO} \parallel \overline{KN}$	1. given
	2. $\angle 1 \cong \angle 3$	2. corresp.
	3. $\angle 1 \cong \angle 2$	3. given
	4. $\angle 3 \cong \angle 2$	4. transitive
	5. $\angle 3 \cong \angle 4$	5. given
	6. $\angle 2 \cong \angle 4$	6. transitive

S	R
7. $\overline{FO} \parallel \overline{AN}$	7. corresp.

3	S	R
	1. $\overline{XY} \parallel \overline{TZ}$	1. given
	2. \overline{XZ} bis. $\angle TXY$	2. given
	3. $\angle TXZ \cong \angle YXZ$	3. Defn of bisector
	4. \overline{XZ} bis. $\angle TZY$	4. given
	5. $\angle TZX \cong \angle YZX$	5. Defn of bisector
	6. $\angle TXZ \cong \angle YZX$	6. alt. int.
	7. $\overline{XT} \parallel \overline{YZ}$	7. alt. int.

4	S	R
	1. $\overrightarrow{BA} \parallel \overrightarrow{CD}$	1. given
	2. $\angle 1 \cong \angle 2$	2. alt. int.
	3. $\angle 1 \cong \angle 3$	3. given
	4. $\angle 2 \cong \angle 3$	4. transitive
	5. $\overrightarrow{BC} \parallel \overrightarrow{DE}$	5. alt. int.

5	S	R
	1. $\overline{NR} \parallel \overline{HP}$	1. given
	2. $\angle 3 \cong \angle 4$	2. alt. int.
	3. $\angle 1 \cong \angle 4$	3. given
	4. $\angle 2 \cong \angle 3$	4. given
	5. $\angle 2 \cong \angle 4$	5. substitution
	6. $\overline{NH} \parallel \overline{RP}$	6. corresp.

WS # 4

Green

1	S	R
	1. $\overline{BC} \parallel \overline{AE}$	1. given
	2. $\angle 3 \cong \angle 2$	2. alt. int.
	3. $\angle 1 \cong \angle 3$	3. given
	4. $\angle 1 \cong \angle 2$	4. transitive

S	R
5. $\overline{BA} \parallel \overline{CD}$	5. corres

(2)	S	R
	1. \overline{NY} bis. $\angle XNT$	1. given
	2. $\angle 1 \cong \angle 3$	2. Def'n of bisector
	3. $\angle 1 \cong \angle 2$	3. given
	4. $\angle 2 \cong \angle 3$	4. transitive
	5. $\overline{XY} \parallel \overline{NT}$	5. alt. int.

(3)	S	R
	1. $\angle 1 \cong \angle 2$	1. given
	2. $\angle 2 \cong \angle 3$	2. vertical \angle s
	3. $\angle 3 \cong \angle 4$	3. given
	4. $\angle 1 \cong \angle 4$	4. transitive
	5. $\overline{XY} \parallel \overline{AB}$	5. alt. int.

(4)	S	R
	1. $\overline{AE} \parallel \overline{BF}$	1. given
	2. $\angle 1 \cong \angle 2$	2. corresp.
	3. $\angle 1 \cong \angle 3$	3. given
	4. $\angle 2 \cong \angle 3$	4. transitive
	5. $\overline{AB} \parallel \overline{EF}$	5. alt. int.

(5)	S	R
	1. $\angle 1 \cong \angle 2$	1. given
	2. $b \parallel c$	2. corresp.
	3. $\angle 3 \cong \angle 4$	3. given
	4. $c \parallel d$	4. alt. int.
	5. $b \parallel d$	5. transitive