

## Geometry 6.3-6.4 Review Answers

1. Yes
2.  $j = -4$  and  $k = -6$  OR  $j = 0$  and  $k = 6$
3. B, C, and D
4.  $x = 7$  and  $y = 12$
5.  $x = 9$  and  $m\angle R = 37^\circ$
6.  $x = 3$  and  $EF = 9$
7. A and E
8. E
9. Yes, SSS
10. Yes, SAS
11. No
12. Yes, SAS

<b>13)</b>		<b>14)</b>	
<b>Statements</b>	<b>Reasons</b>	<b>Statements</b>	<b>Reasons</b>
(1) $\overline{AB} \cong \overline{DE}$	(1) Given	(1) $\overline{PR} \cong \overline{TR}$	(1) Given
(2) $\overline{AB} \parallel \overline{DE}$	(2) Given	(2) $\angle P \cong \angle T$	(2) Given
(3) $\angle A \cong \angle D$ or $\angle B \cong \angle E$	(3) Alternate Interior Angles	(3) $\angle PRQ \cong \angle TRS$	(3) Vertical Angles
(4) $\angle BCA \cong \angle ECD$	(4) Vertical Angles	(4) $\triangle PRQ \cong \triangle TRS$	(4) ASA
(5) $\triangle ABC \cong \triangle DEC$	(5) AAS	(5) $\overline{PQ} \cong \overline{TS}$	(5) CPCTC
<b>15)</b>		<b>16)</b>	
<b>Statements</b>	<b>Reasons</b>	<b>Statements</b>	<b>Reasons</b>
(1) $\overline{ML} \cong \overline{MJ}$	(1) Given	(1) $\overline{BC} \parallel \overline{AD}$	(1) Given
(2) $\overline{KM} \perp \overline{LJ}$	(2) Given	(2) $\angle ABD \cong \angle CDB$	(2) Given
(3) $\triangle MKL$ is a right triangle	(3) $\overline{KM} \perp \overline{LJ}$	(3) $\overline{BD} \cong \overline{BD}$	(3) Reflexive Property
(4) $\triangle MKJ$ is a right triangle	(4) $\overline{KM} \perp \overline{LJ}$	(4) $\angle CDB \cong \angle ADB$	(4) Alternate Interior Angles
(5) $\overline{KM} \cong \overline{KM}$	(5) Reflexive Property	(5) $\triangle CDB \cong \triangle ADB$	(5) ASA
(6) $\triangle MKL \cong \triangle MKJ$	(6) HL	(6) $\overline{BC} \cong \overline{AD}$	(6) CPCTC