

Geometry Unit 6.3 Worksheet Answers

1. 124°

2. 33°

3. NM

4. \overline{NL}

5. ΔZYX

6. ΔNML

7. Congruence Statement: $\Delta XYZ \cong \Delta ZWX$

Explain: Answers may vary

8. N/A

9. $x = 11.15$

10. $x = 8.4$

11. $x = 3, y = 1$

12. $x = 8$

13. $j = 4, k = -5$

14. YES

15.

Statements	Reason
(1) $\angle A \cong \angle E$	Given
(2) $\overline{AB} \cong \overline{ED}, \overline{DC} \cong \overline{BC}, \overline{AC} \cong \overline{EC}$	Given
(3) $\angle ACB \cong \angle ECD$	Definition of vertical angles
(4) $\angle ABC \cong \angle EDC$	Third Angles Theorem
(5) $\Delta ABC \cong \Delta ECD$	All corresponding parts are congruent, forming congruent triangles