

Geometry Unit 7 Review Answers

1. AE, $\triangle LGF$
2. B
3. ADE, $\triangle KFG$
4. 450 ft
5. No, the tree is 18 ft.
6. 36
7. 30
8. 84
- 9.

1. $\overline{KN} \parallel \overline{LM}$	1. Given
2. $\angle JKN \cong \angle JLM$ or $\angle JNK \cong \angle JML$	2. Corresponding Angles
3. $\angle J \cong \angle J$	3. Reflexive Property
4. $\triangle JKN \sim \triangle JLM$	4. Angle Angle ~

10.

1. $RS = 5, RT = 5, ST = 6, AB = 10, AC = 10, BC = 12$	1. Given
2. $\frac{RS}{AB} = \frac{5}{10} = \frac{1}{2}$	2. Substitution / Simplify
3. $\frac{RT}{AC} = \frac{5}{10} = \frac{1}{2}$	3. Substitution / Simplify
4. $\frac{ST}{BC} = \frac{6}{12} = \frac{1}{2}$	4. Substitution / Simplify
5. $\frac{RS}{AB} = \frac{RT}{AC} = \frac{ST}{BC}$	5. Transitive Property
6. $\triangle RST \sim \triangle ABC$	6. Side Side Side