**9.**

|  |  |
| --- | --- |
| **Statements** | **Reasons** |
|  | 1. Given (Diagram) |
|  | 1. Vert. Ang. Cong. Thm. |
|  | 1. AA~ |

**10.**

|  |  |
| --- | --- |
| **Statements** | **Reasons** |
|  | 1. Right Ang. Cong. Thm. |
|  | 1. Triangle Sum Thm. |
|  | 1. Subtraction |
|  | 1. Given |
|  | 1. Substitution |
|  | 1. Def. of Cong. |
|  | 1. AA~ |

**11.** 324 ft.

**12.**

|  |  |
| --- | --- |
| **Statements** | **Reasons** |
|  | 1. Given (Diagram) |
|  | 1. Reflexive Prop |
|  | 1. SAS~ |

**13.**

|  |  |
| --- | --- |
| **Statements** | **Reasons** |
|  | 1. Given (Diagram) |
|  | 1. SSS~ |

**14.** not parallel

**15.** parallel