**9.**

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

**10.**

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

**11.** 324 ft.

**12.**

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

**13.**

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

**14.** not parallel

**15.** parallel