Week 1 Lesson 1 Answers

**1.** **a)**  **b)**  **c)** 

**2.** **a)** 55° **b)** 11° **c)** 46°

**3.** **a)** 1 **b)** 0 **c)** undefined **d)** 

**4.** **a)** 45° **b)** 0° **c)** 90° **d)** 18°

**5.** **a)** B **b)** C; too steep

**6.** 4°

**7.** **a)** 20 ft **b)** 3°

Week 1` Lesson 2 Answers

**8.** **a)** 14% grade **b)** 

**9. a)** 6° **b)** 2° **c)** 5° **d)** 14°

**10.** 6.7%

**11.** Example:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Road** | **Rise** | **Run** | **Slope as a Fraction** | **Slope as a Decimal** | **Percent Grade** |
| Atlantic Avenue | 200 | 1000 |  | 0.2 | 20% |
| Bay Bypass | 6 | 50 |  | 0.12 | 12% |
| City Crescent | 23 | 80 |  | 0.2875 | 28.75% |
| Downtown Drive | 2 | 25 |  | 0.08 | 8% |
| Harbour Highway | 9 | 100 |  | 0.09 | 9% |
| Rural Road | 1 | 5 |  | 0.2 | 20% |
| Suburb Speedway | 1 | 50 |  | 0.02 | 2% |
| Tickle Trail | 3 | 40 |  | 0.075 | 7.5% |

**12.** **a)** Atlantic Avenue, Bay Bypass, Downtown Drive, Harbour Highway, Rural Road, Tickle Trail
**b)** City Crescent