

ANSWERS

PART I

Exercise I

1. 1.86 in., 1.08 in.

7. 1.26 in.

Exercise II

3. 6.09 in., $D = 34^\circ$, $E = 36^\circ$.

9. 77° , 103° .

Exercise III

1. 121° , 43° .

4. $A = 56^\circ$, $B = 51^\circ$, $C = 73^\circ$.

7. $AD = 3.77$ in., $BD = 2.82$ in., $A = 45^\circ$, $B = 71^\circ$, $D = 64^\circ$.

8. 30° , 90° , 15° , 120° , 60° .

9. $3\frac{1}{2}$ in.

10. 66° , 114° .

Exercise IV

3. 100 ft., 207 ft., 50 ft.

4. 264 ft.

6. 6.71 mi

7. 20 ft.

8. 5.14 mi.

9. 49.5 ft., 51.3 ft., 76° , 69° .

10. 6.4 mi., 7.81 mi., 8.94 mi., 10 mi.

Exercise V

7. 9.57 in.

9. $AD = 3.43$ in., $DB = 2.05$ in., $A = 36^\circ$, $B = 84^\circ$.

10. $BC = 2.9$ in., $DE = 1.45$ in.

Exercise VI

5. 13 mi.

10. 5.27 in., 5.46 in., 3.76 in., 3.9 in

Exercise VII

7. $AD = BC = 2.6$ in.

8. 1.3 in.

9. 1128 ft.

Exercise VIII

5. Each perpendicular = 1.47 in.

9. 32.7 mi.

10. 17.7 mi.

Exercise IX

1. 2.06 in.

3. 1.08 in., 1.94 in.

4. 1.8 in., 1.39 in., 1.55 in.

5. $A = 64^\circ$, $B = 55^\circ$, $C = 61^\circ$.

6. 1.56 in., 1.26 in.

7. 49° , 59° , 72° .

8. 53° , 37° , 90° .

9. 25° , 67° , 90° .

10. 675 ft., 24° , 19° .