

Miscellaneous Exercises

1. 65.5 ft., 90° , 80° , 76° , 114° , 1965 sq. ft.
2. .74 dm., .66 dm., 88° , 84° , 91° , 97° .
3. $AB = 110$ in., $AC = 87$ in., $DA = 48$ in., $DB = 77$ in., $DC = 56$ in.
4. 38.9 ft.
5. $AB = 39.7$ ft., $AE = 80.4$ ft., $AD = 81.9$ ft., $AC = 36.5$ ft.
6. $AE = 423$ ft., $AD = 619$ ft., $AC = 598$ ft., $A = 122^\circ$, $E = 8^\circ$
area = 259,805 sq. ft.
7. 24 ft., 384 sq. ft.
8. 75 ft.
9. 27.5 ft., 2750 sq.
10. 285 ft., 110° , 65° .
11. 282
12. $A = 101^\circ$, $B = 112^\circ$, $C = 130^\circ$, $D = 80^\circ$, $E = 159^\circ$, $F = 137^\circ$.
13. 36 ft.
14. Distance = 80.3 mi., course = N 29°
15. $AB = 411$ in., $BC = 491$ in., $CA = 454$ in.
16. $BC = 18.2$ in., $BD = 39.3$ in., $CD = 23.9$ in., area = 616 sq. in.
17. $AC = 461$ ft., $BD = 552$ ft.
18. 173
19. 64, 84, 96, 104, and 100 ft. respectively.
20. $AB = 37.9$ ft., $BC = 28.8$ ft., $CD = 25.8$ ft., $DE = 42.4$ ft., $EA = 55.6$ ft.
21. 451 ft.
22. $BC = 246$, $CE = 190$, $BE = 260$, area = 22,200 sq. ft.
23. 36 ft.
24. 428 in., 6
25. Area = 19,800 sq. yds., distance = 534 yds.
26. $A = 138^\circ$, $E = 90^\circ$, $D = 118^\circ$, area = 1907.
27. 119 ft., 142
28. 53.1 yds.
29. 22.6 mi.
30. 111 ft.
31. 245
32. 32 km., 9.9 km., 26 km.
33. 137 ft., 237 ft.
34. 34.2
35. 99,018 sq. yds.
36. 10 mi.
37. 15.48 sq. in., 3.87 sq.
38. Heights = 11 and 41 ft. respectively, distance = 30 ft.
39. 18° , 400 yds.
40. $AB = 5.38$ mi., $BC = 9.43$ mi., $AC = 13.3$ mi. Direction is S 13°