

X b. p. 151.

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|------------------------------|---------------------|-----------------------|
| 1. 164 ft. | 2. 800 yds. | 3. 172 ft. or 392 ft. |
| 4. 106 yds. | 5. 280 ft. | 6. 2·24 miles. |
| 7. 6510 ft. | 8. 56° approx. | 9. 2690 yds. nearly. |
| 10. 2874 ft. nearly. | 11. 5 miles per hr. | 12. 1·412 : 1. |
| 13. 2092 ft. | 14. 51° nearly. | 15. 2193 ft. |
| 16. 8·63 miles, E. 17 54' N. | 17. 17169 cu. yds. | |
| 18. 14·9 sq. in. | 19. 37° 30'. | 20. 1014 sq. ft. |

TRIANGULATION. p. 156.

DE=366 ft., FE=412 ft., FG=274 ft., EG=308 ft.

EXERCISE. p. 156.

PQ=112 ft., QR=148 ft., RP=102 ft.

MISCELLANEOUS EXAMPLES H. p. 157.

1. (1) 105 $\frac{1}{2}$, (2) 849·4.
2. (1) 21·5 chains E., (2) 9·2 chains N., (3) 23·4 chains, (4) N 66 45' E.
3. 77° 10', 139° 21', 84° 16', 59° 13', 37·45 sq. ft. 4. 18·9 ft.
6. (1) 8·116, (2) 2·515. 7. 6·83 miles per hr.
8. DA=50 ft., AE=160 ft., EB=19 $\frac{1}{2}$ ft., BD=120 ft.;
112° 23', 67° 37', 128° 39', 51° 21', 14440 sq. ft.
10. 13° 54' with a line going E. and W. 11. 23660 tons.
12. 3600 cu. in. 13. 12, 16, 20 ft. 14. 17° 48' nearly.
17. 376 ft. 20. 28,000 miles. 21. 17 ft.
25. $-4 \sin^2 \frac{A}{2}$. 28. 120°.