## EVOLUTION. — ART. 255. PAGE 289.

Find the square root of the following :

| | | | |
|---|---|---|---|
| 1. 87. | Ans. 9.327+. | 7. $\frac{25}{49}$. | Ans. $\frac{5}{7}$. |
| 2. 4761. | " 69. | 8. $\frac{121}{256}$. | " $\frac{11}{16}$. |
| 3. 7056. | " 84. | 9. $17\frac{3}{8}$. | Ans. 4.1683+. |
| 4. 9801. | " 99. | 10. $\frac{5}{8}$. | " 79056+. |
| 5. 152399025. | " 12345. | 11. $34967\frac{2}{11}$. | " 186.9951+. |
| 6. 10342656. | " 3216. | 12. $207\frac{25}{36}$. | " 14.4116+. |

## ART. 260. PAGE 293.

Required the cube root of the following numbers :

| | | | |
|---|---|---|---|
| 1. 91125. | Ans. 45. | 7. 20.570824. | Ans. 2.74. |
| 2. 140608. | " 52. | 8. .241804867. | " 0.623. |
| 3. 571787. | " 83. | 9. $\frac{125}{343}$. | " $\frac{5}{7}$. |
| 4. 2515456. | " 136. | 10. $44\frac{3}{5}$. | Ans. 3.5463+. |
| 5. 10218313. | " 217. | 11. $49\frac{8}{27}$. | " $3\frac{2}{3}$. |
| 6. 11543.176. | " 22.6. | 12. $\frac{4}{15}$. | " .643659+. |

## COMPOUND INTEREST. — ARTS. 262–264. PAGE 296.

Find the amounts of the following sums, at the given rates per cent. per annum :

| | | | | |
|---|---|---|---|---|
| 1. $960 | for 10 years, | at 7 per cent. | Ans. | $1888.464. |
| 2. $1000 | " 9 " | at 5 " " | " | $1551.328. |
| 3. $1460 | " 12 " | at 4 " " | " | $2337.506. |
| 4. $5000 | " 20 " | at 6 " " | " | $16035.675. |
| 5. £198 10 | " 30 " | at 5 " " | " | £857 18 1¼. |
| 6. £136 15 | " 25 " | at 3 " " | " | £286 6 5¾. |
| 7. $10000 | " 40 " | at 7 " " | " | $149744. |
| 8. £1674 | " 10 " | at 4 " " | " | £2477 18 6¼. |
| 9. £1000 | " 4 " | at 5 " " | " | £1215 10 1¼. |
| 10. £198 16 8 | " 11 " | at 6 " " | " | £375 12 1¼. |

## ART. 264. PAGE 298.

1. What sum of money, lent out at compound interest, at 6 per cent., will amount to $35948.37 in 15 years? Ans. $15000.00.

2. A person wishes his son, who is three years old, to have $11782.80 when he comes to the age of 21 years ; how much must he deposit in the bank to amount to that sum, at 5 per cent. compound interest?

Ans. $4896.00.