Page 1. Answers to Examination questions, Formulas, Ex. 92, 3rd. Edition

AB X-1377498.

O. Ernest Collins.
St. Peters Pa.

(1.) $b = \frac{D - X}{B + i} = \frac{120 - 12}{10 + 3.5} = \frac{108}{13.5} = 8$ Ans.

13.5)108.0(8
108
0

(2.)

$Q = \frac{A\,h + D}{2\,X + b} + d$ ≠ See slip.

$\frac{(6 \times 200) + 120}{(2 \times 12) + 6} = \frac{1,000 + 120}{24 + 6}$ ✓

$37\frac{1}{3} + d = 37\frac{1}{3} + 120 = 157\frac{1}{3}$ Ans.

37 1/3
157

$\frac{1120}{30} = 37\frac{1}{3}$

30)1120(37 1/3
90
220
210
10

$\frac{20}{30} = \frac{1}{3}$

$\frac{6492}{\frac{260}{7.5}} = 6492 \times \frac{7.5}{260} = 187.269 \times$ Ans.

(3.)

$R. = \frac{3,246\,B\,h}{A\,S + h\,A\,i - B} = \frac{3,246 \times 10 \times 200}{(6 \times 12) + 200} = \frac{6492}{\frac{260}{7.5}} =$

$\frac{(6 \times 3.5) - 10}{}$

(4.)

$V = \sqrt{\frac{A\,D}{i\,B + 1.5}} = \sqrt{\frac{6 \times 120}{(3.5 \times 10) + 1.5}} = \sqrt{\frac{600}{36.5}}$

3.5
10
36.5
1 1 5
3 0 5

$\sqrt{600} \div 36.5 = \sqrt{16.4383} = 4.06 +$ Ans.

6492
7.5
32460
45444
48690.0(187.269 +
260
2269
2080
1890
1820
700
520
1800
1560
2400
2340
60

260)48690.0(187.269 +