

Use your calculator to compute each expression to 6 significant digits accuracy or six decimal places, whichever is more accurate. Write down the sequence of keys you entered in order to compute each expression. Do not round numbers in mid-computation.

1. (4pts) $\sqrt[4]{31} = 2.359611$

IN IGC
31 $\sqrt{\wedge}$ (1/4)

SC
31 $\sqrt{\wedge}$ (1/4)

2. (6pts) $22(\sqrt[3]{7.23} - 1) = 20.540453$

22 $\sqrt{\wedge}$ (7.23) (1/3) - 1

7.23 $\sqrt{\wedge}$ (1/3) - 1 * 22

3. (8pts) $2015 \left(1 + \frac{0.025}{12}\right)^{18} = 2091.91557$

2015 $\left(1 + \frac{0.025}{12}\right)^{18}$

0.025/12 + 1 $\sqrt{\wedge}$ 18 * 2015

4. (9pts) $\frac{3000}{\left(1 + \frac{0.035}{2}\right)^8} = 2611.234719$

3000 $\div \left(1 + \frac{0.035}{2}\right)^8$

0.035/2 + 1 $\sqrt{\wedge}$ 8 \div 3000

5. (9pts) $12 \left(\sqrt[18]{\frac{2000}{1200}} - 1\right) = 0.345429$

12 $\left(\left(\frac{2000}{1200}\right)^{(1/18)} - 1\right)$

2000/1200 $\sqrt{\wedge}$ (1/18) - 1 * 12

6. (12pts) $\frac{\left(1 + \frac{0.0324}{12}\right)^{24} - 1}{\frac{0.0324}{12}} = 24.760166$

$\left(\left(1 + \frac{0.0324}{12}\right)^{24} - 1\right) / \left(\frac{0.0324}{12}\right)$

OR: 0.0324/12 STO A, then $\left(\left(1 + A\right)^{24} - 1\right) / A$

7. (12pts) $\frac{1 - \left(1 + \frac{0.025}{4}\right)^{-20}}{\frac{0.025}{4}} = 18.745558$

$\left(1 - \left(1 + \frac{0.025}{4}\right)^{-20}\right) / \left(\frac{0.025}{4}\right)$

OR 0.025/4 STO A, then $\left(1 - A^{-20}\right) / A$

use memory, clear it beforehand

0.0324/12 $\sqrt{\wedge}$ 24 - 1 \div (1/12)

1 + $\sqrt{\wedge}$ 24 - 1 \div (1/12)

↑ recall memory

0.025/4 $\sqrt{\wedge}$ 20 - 1 \div (1/4)

1 - $\sqrt{\wedge}$ 20 - 1 \div (1/4)