

Use your calculator to compute each expression to 6 significant digits accuracy. Write down the sequence of keys you entered in order to compute each expression. Do not round numbers in mid-computation.

1. (3pts)  $\sqrt[5]{14} = \boxed{1.695218}$   
 graphing calculator:

$14^{(1/5)}$

Scientific calculator:

14 [2nd] [y<sup>x</sup>] 5 [=]

2. (4pts)  $1200 \left(1 + \frac{0.045}{4}\right)^{16} = \boxed{1435.21776}$

$1200 * (1 + 0.045/4)^{16}$

1 [÷] 0.045 [=] 4 [=] [y<sup>x</sup>] 16 [=] [×] 1200

3. (4pts)  $\sqrt[5]{4.12 + 13.9} = \boxed{1.782998}$

$(4.12 + 13.9)^{(1/5)}$

4.12 [÷] 13.9 [=] [2nd] [y<sup>x</sup>] 5 [=]

4. (3pts)  $\frac{\log 0.356}{\log 0.13} = \boxed{0.506232}$

$\log(0.356) / \log(0.13)$

0.356 [log] [=] 0.13 [log] [=]

5. (4pts)  $\frac{\log(6.35)}{17 \log 3.17} = \boxed{0.0942443}$

$\log(6.35) / (17 \log(3.17))$

6.35 [log] [=] [17] [\*] 3.17 [log] [=]

6. (6pts)  $\frac{\left(1 + \frac{0.05}{12}\right)^{24} - 1}{\frac{0.05}{12}} = \boxed{25.185921}$

$((1 + 0.05/12)^{24} - 1) / (0.05/12)$

0.05 [÷] 12 [=] → store in memory  
 [÷] 1 [=] [y<sup>x</sup>] 24 [=] [1] [=] [÷] recall mem [=]

7. (6pts)  $\frac{1 - \left(1 + \frac{0.0375}{12}\right)^{-120}}{\frac{0.0375}{12}} = \boxed{99.938794}$

$(1 - (1 + 0.0375/12)^{-120}) / (0.0375/12)$

0.0375 [÷] 12 [=] → store in memory  
 [÷] 1 [=] [y<sup>x</sup>] -120 [=] [÷] [1] [=]  
 [÷] recall memory [=]