

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. (5pts) $\sqrt[9]{46} = \boxed{1.530209}$ Graphing: $46^{(1/9)}$
Scientific: $46 \boxed{\sqrt{x}}$ $9 \boxed{=}$ $\boxed{=}$
2. (9pts) $3700 \left(1 + \frac{0.05}{4}\right)^{16} = \boxed{4513.591327}$ \textcircled{G} $3700 (1 + 0.05/4)^{16}$
 \textcircled{S} $0.05/4 + 1 \boxed{=}$ $\boxed{=}$ $16 \boxed{=}$ $\boxed{*}$ 3700
3. (7pts) $12(\sqrt[24]{7} - 1) = \boxed{1.013486}$ \textcircled{G} $12(7^{(1/24)} - 1)$
 \textcircled{S} $7 \boxed{\sqrt{x}}$ $24 \boxed{=}$ $- 1 \boxed{=}$ $\boxed{*}$ $12 \boxed{=}$
4. (6pts) $\frac{\log 3.71}{\log 0.125} = -0.630473$ \textcircled{G} $\log(3.71) / \log(0.125)$
 \textcircled{S} $3.71 \boxed{\log}$ $/$ $0.125 \boxed{\log}$ $\boxed{=}$
5. (9pts) $\frac{\log 7.32}{14 \log 4.33} = 0.097018$ \textcircled{G} $\log(7.32) / (14 \log(4.33))$
 \textcircled{S} $7.32 \boxed{\log}$ $/$ $14 \boxed{*}$ $4.33 \boxed{\log}$ $\boxed{=}$
6. (12pts) $\frac{\left(1 + \frac{0.0375}{12}\right)^{48} - 1}{0.0375} = 51.700011$ \textcircled{G} $((1 + 0.0375/12)^{48} - 1) / (0.0375/12)$
 \textcircled{S} $1 + 0.0375 \boxed{/}$ $12 \boxed{=}$ $\boxed{^}$ $48 \boxed{=}$ $- 1 \boxed{=}$
 $\boxed{/}$ $\boxed{(}$ $0.0375 \boxed{/}$ $12 \boxed{=}$ $\boxed{=}$
7. (12pts) $\frac{1 - \left(1 + \frac{0.0425}{12}\right)^{-120}}{0.0425} = 97.620469$ \textcircled{G} $(1 - (1 + 0.0425/12)^{-120}) / (0.0425/12)$
 \textcircled{S} $1 \boxed{-}$ $\boxed{(}$ $1 + 0.0425 \boxed{/}$ $12 \boxed{=}$ $\boxed{^}$ $- 120 \boxed{=}$ $\boxed{-}$ $\boxed{/}$ $\boxed{(}$ $0.0425 \boxed{/}$ $12 \boxed{=}$ $\boxed{=}$