

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. (5pts) $\sqrt[11]{17} = \boxed{1.498920}$

Graphing calculator: $17^{(1/11)}$ $\boxed{=}$

Scientific calculator: $17 \sqrt[11]{} \boxed{=}$

2. (9pts) $2400 \left(1 + \frac{0.03}{12}\right)^{24} = \boxed{2548.216906}$

G: $2400 \times (1 + 0.03/12)^{\wedge} 24 \boxed{=}$

S: $1 + 0.03 \sqrt[12]{} \boxed{=}$ $\boxed{24}$ $\boxed{\times}$ $2400 \boxed{=}$

3. (7pts) $15(\sqrt[10]{3} - 1) = \boxed{1.741848}$

G: $15 \times (3^{(1/10)} - 1) \boxed{=}$

S: $3 \sqrt[10]{} \boxed{=}$ $\boxed{-}$ $\boxed{1}$ $\boxed{\times}$ $15 \boxed{=}$

4. (6pts) $\frac{\log 5.34}{\log 0.033} = \boxed{-0.491089}$

G: $\log(5.34) / \log(0.033) \boxed{=}$

S: $5.34 \boxed{\log} / 0.033 \boxed{\log} \boxed{=}$

5. (9pts) $\frac{\log 8.51}{12 \log 3.59} = \boxed{0.139605}$

G: $\log(8.51) / (12 \times \log(3.59)) \boxed{=}$

S: $8.51 \boxed{\log} / \boxed{12} \times 3.59 \boxed{\log} \boxed{=}$

6. (12pts) $\frac{\left(1 + \frac{0.0425}{12}\right)^{60} - 1}{0.0425} = \boxed{66.720536}$

G: $(1 + 0.0425/12)^{\wedge} 60 - 1 \boxed{=} / (0.0425/12) \boxed{=}$

S: $1 + 0.0425/12 \boxed{=}$ $\boxed{60}$ $\boxed{-}$ $\boxed{1}$ $\boxed{=} / \boxed{0.0425/12} \boxed{=}$

7. (12pts) $\frac{1 - \left(1 + \frac{0.03}{4}\right)^{-20}}{0.03/4} = \boxed{18.508020}$

G: $1 - (1 + 0.03/4)^{\wedge} -20 \boxed{=} / (0.03/4) \boxed{=}$

S: $1 - \boxed{1} + 0.03/4 \boxed{=}$ $\boxed{-20}$ $\boxed{=} / \boxed{0.03/4} \boxed{=}$