Use $\log 2 \approx 0.30$, $\log 3 \approx 0.48$, $\log 7 \approx 0.85$ together with your knowledge of logarithms and their properties complete the following table **without** using the *log* key on your calculator.

log 1	log 2	log 3	log 4	log 5	log 6	log 7	log 8	log 9	log 10
0	0.30	0.48	a (0	.7	.78	0.85	9	.96	1

Re-Expressions:

$$\frac{1091 = 0}{1094 = 1092^{2} = 2.1092 = 2(.3) = .6}$$

$$\log 4 = 1092^{2} = 2.092 = 2(.3) = .6$$

$$\log 5 = 109^{\frac{10}{2}} = 10910 - 1092 = 1 - .3 = .7$$

$$\log 6 = \log 3 \cdot 2 = 1093 + 1092 = .48 + .30 = .78$$

$$\log 8 = 1092^{3} = 31092 = 3(.3) = .9$$

$$\log 9 = 1093^{2} = 2.1093 = 21.48 = .96$$

NOW YOU TRY!

Use $\log_2 3 \approx 1.58$, $\log_2 7 \approx 2.81$, and $\log_2 10 \approx 3.32$ together with your knowledge of logarithms and their properties, complete the following table without using the *log* key on your calculator.

This is the control of these that you can just evideon the without using rist properties.

$$\frac{\log_2\left(\frac{1}{2}\right)}{\log_2 2} \frac{\log_2 3}{\log_2 4} \frac{\log_2 5}{\log_2 5} \frac{\log_2 6}{\log_2 7} \frac{\log_2 8}{\log_2 9} \frac{\log_2 9}{\log_2 10} \frac{\log_2 14}{\log_2 14}$$

$$= 1 1.58 2 3.32 3.58 2.81 3 3.16 3.32 3.81$$
Re-Expressions:

$$\frac{\log_2 5}{2} = \log_2 \frac{10}{2} = \log_2 10 - \log_2 2 = 3.32 - 1$$

$$\log_2 4 = \log_2 (7.2) = \log_2$$

Using the fact that $\ln 3 \approx 1.10$, $\ln 4 \approx 1.39$, and $\ln 15 \approx 2.71$ together with your knowledge of logarithms and their properties, complete the following table without using the *log* key on your calculator.

HINT: You may want to find In 2 FIRST using one of the known values in the chart!!!!

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Re-Expressions:										
= 1011.01110										