

- 57 (a) Let $Y_1 = \log(X^4)$ and $Y_2 = 4\log(X)$. Table Y_1 and Y_2 starting at $x = 1$, incrementing by 1, as shown in *Figure 57*. From the table it appears that Y_1 and Y_2 are equal.
- (b) This can be shown using Property 4: $\log(x^4) = 4\log x$.

X	Y ₁	Y ₂
1	0	0
2	1.2041	1.2041
3	1.9085	1.9085
4	2.4082	2.4082
5	2.7959	2.7959
6	3.1126	3.1126
7	3.3804	3.3804

X=1

Figure 57