Chapter 7.1, Problem 18E

Problem

	a. log3 81			
b. log2 1024				
C. $\log_3\left(\frac{1}{27}\right)$				
d. log2 1				
e. $\log_{10}\left(\frac{1}{10}\right)$				
f. log3 3				

Step-by-step solution

Step 1 of 7 (a) $\log_3 81 = \log_3 3^4$ $=4\log_3 3$ =4(1)=4Step 2 of 7 (b) $\log_2 1024 = \log_2 2^{10}$ $=10 \log_2 2$ =10(1)=10Step 3 of 7 (c) $\log_3\left(\frac{1}{27}\right) = \log_3 27^{-1}$ $= \log_3 3^{-3}$ $= -3(\log_3 3)$ $= -3 \times 1 = -3$ Step 4 of 7 (d) $\log_2 1 = 0$ since $\log 1 = 0$

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