


16) (D) Working With Logarithms

- Solve: (HINT: switch to exponential form)
- (a) $\log _{x} 27=3$
(b) $\log _{x} \sqrt[3]{ } 25=5$
- (c)
(d) $\log _{x} 25=2 / 3$
- (e) $\log _{4} \sqrt{ } 2=x$
(f) $\log _{2} 2^{7}=x$
- (g) $5 \log _{3} 9=x \quad$ (h) $\log _{4} x=-3$
- (i) $\log _{9} x=-1.5 \quad$ (j) $\log _{2}(x+4)=5$
- (k) $\log _{3}(x-3)=3$ (l) $\log _{2}\left(x^{2}-x\right)=\log _{2} 12$
- (m) $\log _{3} 5 \sqrt{ } 9=x$
(n) $\log _{1 / 3} 9 \sqrt{ } 27=x$
- (o) $\log _{x} 81=-4$
(p) $\log _{2} \sqrt{ } 0.125=x$



