

9.  $y = 2 \ln(x-3)$  Domain:  $x > 3$   
 to find  $\{x \mid x > 3\}$   
 x-int set  $y=0$  V.A.  $x=3$   
 $0 = 2 \ln(x-3)$   
 $0 = \ln(x-3)$   
 $e^0 = e^{\ln(x-3)}$   
 $1 = x-3$   $x=4$  when  $y=0$

$0 = 2 \ln(x-3)$   
 $e^0 = e^{2 \ln(x-3)}$   
 $1 = e^{\ln(x-3)^2}$   
 $1 = (x-3)^2$   
 $\pm 1 = x-3$   
 $3-1, 3+1 = x$   
~~2~~,  $4 = x$



