

The solution is $0 < x \le 4$.

PRACTICE			
EXAMPLE 1 on p. 526 for Exs. 1–6	Solve the exponential inequality using a table and using a graph.		
	1. $3^x \le 20$	2. $28\left(\frac{2}{3}\right)^x > 9$	3. $244(0.35)^x \ge 50$
	4. $-63(0.96)^x < -27$	5. $95(1.6)^x \le 1620$	6. $-284\left(\frac{9}{7}\right)^x > -135$
EXAMPLE 2 on p. 527 for Exs. 7–12	Solve the logarithmic inequality using a table and using a graph.		
	7. $\log_3 x \ge 3$	8. $\log_5 x < 2$	9. $\log_6 x + 9 \le 11$
	10. $2 \log_4 x - 1 > 4$	11. $-4 \log_2 x > -20$	12. $0 \le \log_7 x \le 1$
	13. FINANCE You deposit \$1000 in an account that pays 3.5% annual interest compounded monthly. When is your balance at least \$1200?		
	14. RATES OF RETURN An investment that earns a rate of return <i>r</i> doubles in value in <i>t</i> years, where $t = \frac{\ln 2}{\ln (1 + r)}$ and <i>r</i> is expressed as a decimal. What rates of return will double the value of an investment in less than 10 years?		