

Number:

Textbook Section:

Title:

Solve each equation. Give exact answers and approximate answers accurate to four decimal places where applicable.

1. $5^x = 3$

2. $3^{4x+5} = 8^{x-1}$

3. $\log_6(x+2) + \log_6(x-3) = 1$

4. $3 \cdot 4^x - 5 = 10$

5. $\log_2(x+5) + \log_2(x+4) = \log_2 2$

6. $450(3.02)^{3x} = 180(5.68)^x$

7. $e^{4x} + 4e^{2x} - 21 = 0$

8. $2^{2x} + 2^{x+2} - 12 = 0$