

Solve each equation.

1. $4^{(x+7)} = 8$

2. $27^{(5-2x)} = 13$

3. $9.7^{(6.3x-5.7)} = 48.8$

4. $9e^{(2x-3)} - 7 = 10$

5. $6.2e^{(.5x)} - 2.7 = 14.9$

6. $(-.005)e^{(\frac{x}{35.1})} = 16.61$

7. $5^{(x+2)} = 18^{(2x-5)}$

8. $22^{(7-x)} = 11.4^{(3x+1)}$

9. $12.04^{(.8x)} = 1.4^{(2.2x-1)}$

10. $e^{2x} - 5e^x - 18 = 0$

11. $3e^{2x} + 22.1e^x + 1.4 = 0$

12. $(.6)e^{2x} + 3e^{x+2} - 1.1 = 0$