
5.6 Practice – Solving Exponential Equations

Name _____ Date _____ Period _____

Solve for x algebraically:

1. $4^x = 10$

2. $2.4^{3x+1} = 9$

3. $\left(\frac{1}{2}\right)^{-x} = 1.6$

4. $(1.5)^{x-1} = 14.5$

5. $3^{\frac{x}{2}+1} = 12.2$

6. $5^{2x} = 100$

7. $13^{3x-1} = 91$

8. $2^{x+4} = 20$

9. $40 = 5^{2x+1}$

10. $20^{x^2} = 70$