

Math 30-1
Solving Exponential Equations

Name: _____

Solve the following and leave the answer as an exact value

1. $3^x = 25$

2. $10^{x-4} = 7^x$

3. $4^{2x} = 15^{x-1}$

4. $9^{2x+3} = 568$

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

6. $8^{\frac{-x}{3}} = 20$

7. $2^{x+3} = 17^x$

8. $17^{x+4} = 196^{3x-2}$

9. $4^{x+1} = 5^{x-2}$

10. $3(2^x) = 6^{x-2}$