

**Solving Exponential Equations with One to One Property Practice**

Name \_\_\_\_\_

Date \_\_\_\_\_

**Solve by equating exponents**

1. $3^{2x-5} = 3^{x+3}$	2. $4(2)^{2x} + 2 = 34$
3. $2^{3x} = \left(\frac{1}{8}\right)^{2x+1}$	4. $3^{2x} = \left(\frac{1}{9}\right)^3$
5. $\left(\frac{1}{125}\right)^x = 5^{4x-2}$	6. $\left(\frac{1}{27}\right)^{x+1} = \left(\frac{1}{81}\right)^{x-1}$
7. $4^{4x+3} = 16^{x-3}$	8. $3^{2x+3} = \left(\frac{1}{81}\right)^{x-1}$