Algebra 1   Name_____
Homework – Solving Exponential Functions

For questions 1—2, solve the equations.

1. $9^x = 81$ 1. _____

2. $2^{3x+20} = 32$ 2. _____

3.   What is the x-value of the system: $\begin{cases} y = 2 \\ y = 16^x \end{cases}$ 3. _____

4.   What is the y-value of the system: $\begin{cases} 9 = 9^{2y} \\ y = 3x - 2 \end{cases}$ 4. _____

5.   What is the solution to the system: