Use the common base method to solve each of the equations. Show your work neatly organized.

1.	$3^{x} = 27$	2.	$5^{x} = .2$
3.	$2^{x} = .25$	4.	$32^{x} = 4$

5. 
$$81^x = 27$$
 6.  $25^x = 125$ 

7. 
$$2^{(3x-5)} = 8$$
 8.  $5^{(2x+3)} = 625$ 

9. 
$$10^{(4x-1)} = .001$$
 10.  $8^{(2x-1)} = 16^{(x+2)}$ 

Use logarithms to solve each of the equations. Express your answers rounded to the nearest hundredth. Show your work neatly organized.

11. 
$$3^{x} = 5$$
  
12.  $2^{x} = .2$   
13.  $6^{(2x)} = 3$   
14.  $3^{(-2x)} = 35$ 

15. 
$$5^{(x+2)} = 50$$
 16.  $2^{(2x-1)} = 20$ 

17. 
$$3^{(x+1)} = 5^{(2x-3)}$$
 18.  $e^{(3x)} = 5$ 

19. 
$$e^{(2x+1)} = 9$$
 20.  $e^{(x-2)} = 2$