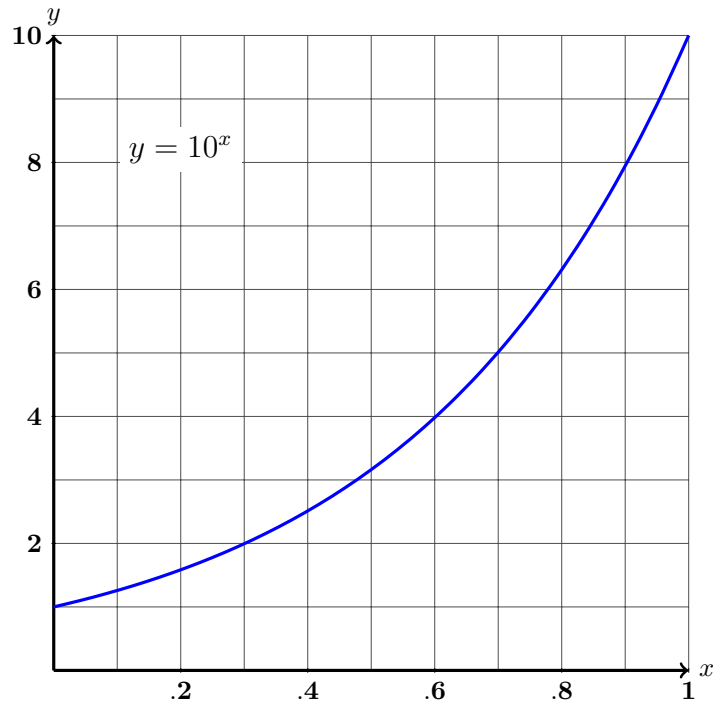


Quiz 6

Name:

Perm Number:



1. Use the graph to estimate $\log(1.26)$

 $\log(1.26) \approx$

2. Use the graph to estimate $\log(4)$

 $\log(4) \approx$

3. What is the ratio of your answer in part (b) to your answer in part (a)?

(This should be a whole number).

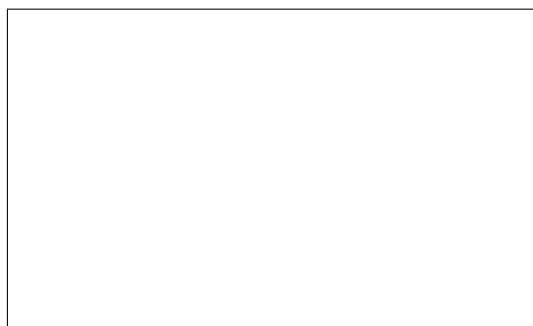
 $\frac{\log(4)}{\log(1.26)} \approx$

4. According to some reports, in some parts of the world the number of reported cases of a disease grows by approximately 26% every 2 days during its initial days of outbreak. This is to say, the number of people reported to have the disease is multiplied by about 1.26 every two days. If the growth continues this way, how many days would it take for the number of reported cases to quadruple?

5. Solve the below equation for x . You are welcome to use either \log or \log_4 for your answer.

$$3 \cdot 4^{2x-3} = 9$$

$x =$



6. I have $\$x$. Veggie-burgers cost $\$v$ each and sodas costs $\$s$ each. If I buy y veggie-burgers how many sodas can I buy?

of sodas =

