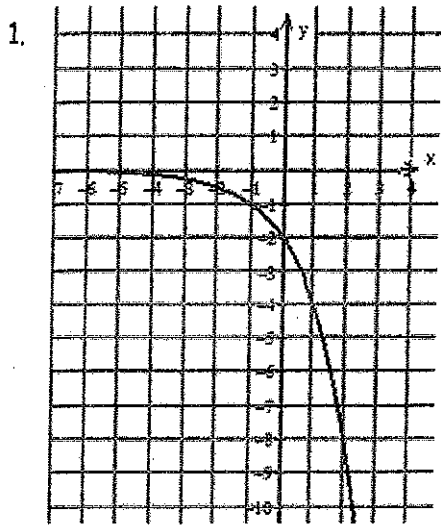


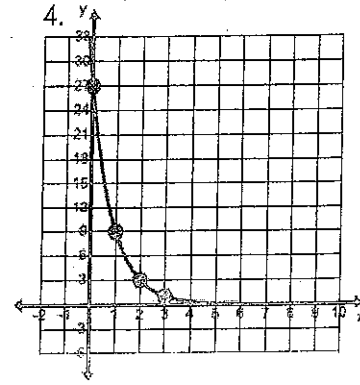
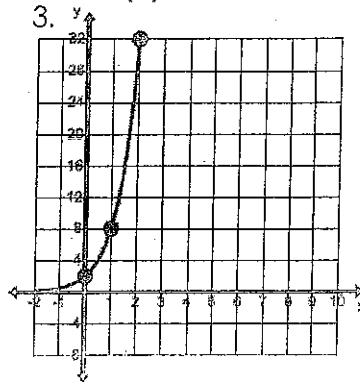
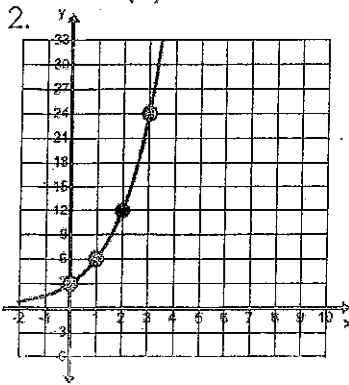
Quiz #2 Review
Exponential Functions

Name: _____

Describe the characteristics of the function below.



- | | |
|------------------|-------|
| a. Domain: | _____ |
| b. Range: | _____ |
| c. x-intercept: | _____ |
| d. y-intercept: | _____ |
| e. Increasing: | _____ |
| f. Decreasing: | _____ |
| g. Asymptote: | _____ |
| h. End Behavior: | _____ |



Rate of Change

[0, 1]

[2, 3]

Rate of Change

[0, 2]

[1, 2]

Rate of Change

[0, 3]

[1, 3]

Find the rate of change over the given intervals for the following function. $Y = 2^x + 6$

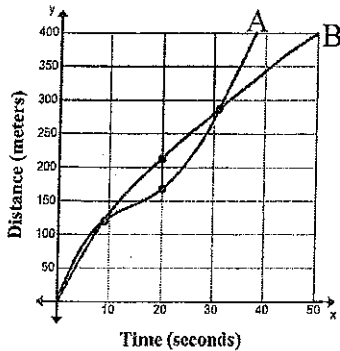
5. [-1, 3] ROC: _____

6. [2, 5] ROC: _____

Rate of Change Practice Worksheet

Name: _____ Date: _____

Below is the graph and table for 2 runners running the 400 meter hurdles race.

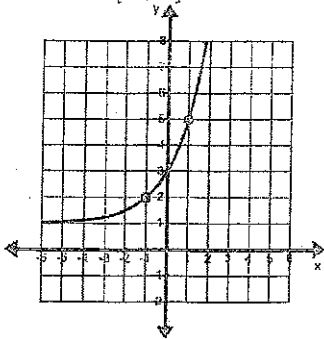


Time	Runner A	Runner B
0	0	0
9	120	120
20	168	213
31	287	287

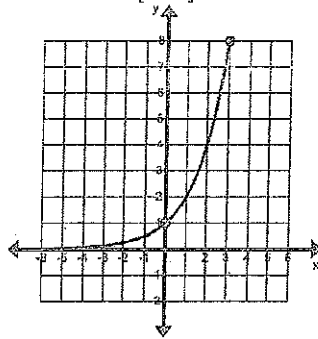
1. Which runner has a faster average speed for the first 9 seconds?
2. Which runner has a faster average speed from 9 to 20 seconds?
3. Which runner has a faster average speed from 20 to 31 seconds?
4. Which runner has a faster average speed from 9 to 31 seconds?
5. Which runner wins the race? How do you know?

Find the average rate of change for each of the following graphs over the given interval.

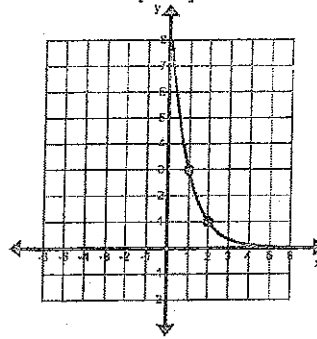
6. $[-1, 1]$



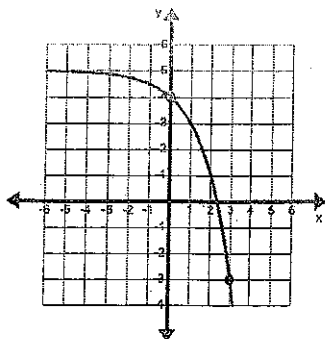
7. $[0, 3]$



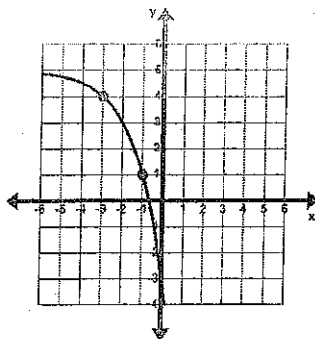
8. $[1, 2]$



9. $[0, 3]$



10. $[-3, -1]$



11. $[0, 1]$

