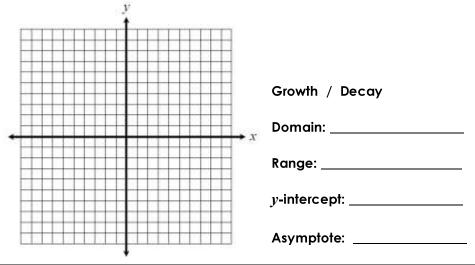
| Name: | Date: |
|--------|--------|
| Торіс: | Class: |

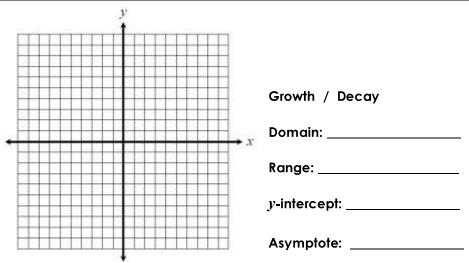
| Main Ideas/Questions | Notes/Examples |
|-------------------------------------|---|
| EXPONENTIAL <i>Junctions</i> | Exponential functions are defined by an equation of the form |
| ASYMPTOTE | |

Directions: Classify as an exponential growth or decay, create a table of values and graph, then identify its key characteristics.

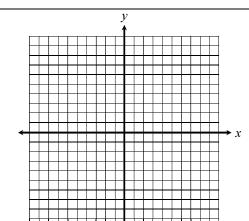
1.
$$y = 2^x$$



2.
$$y = \left(\frac{1}{4}\right)^x$$



| 3. | ν= | : 3 ^x | _ | - |
|----|---------|------------------|---|---|
| 3. | $\nu =$ | : 3 | _ | |



Growth / Decay

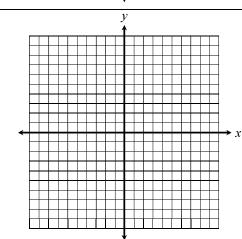
Domain: _____

Range:

y-intercept: _____

Asymptote: _____

4.
$$y = \left(\frac{1}{3}\right)^x + 4$$



Growth / Decay

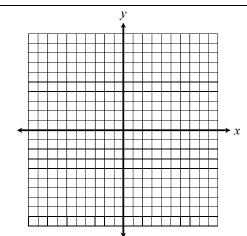
Domain: _____

Range: _____

y-intercept:

Asymptote: _____

5.
$$y = \frac{1}{4} \cdot 2^x$$



Growth / Decay

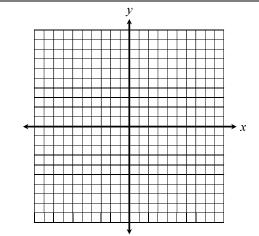
Domain: _____

Range: _____

y-intercept: _____

Asymptote: _____

6.
$$y = 5\left(\frac{1}{2}\right)^x - 3$$



Growth / Decay

Domain: _____

Range: _____

y-intercept: _____

Asymptote: