**7-5 Homework: *Exponential Functions***

**Graph each function. Find the *y*-intercept, and state the domain and range.**

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



 **3.** *y* = 3($2^{x}$) **4.** *y* = $3^{x}$+ 2



**Determine whether the set of data shown below displays exponential behavior. Write *yes* or *no*.
Explain why or why not.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **5.** | ***x*** | –3 | –2 | –1 | 0 |
|  | ***y*** | 9 | 12 | 15 | 18 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **6.** | ***x*** | 0 | 5 | 10 | 15 |
|  | ***y*** | 20 | 10 | 5 | 2.5 |