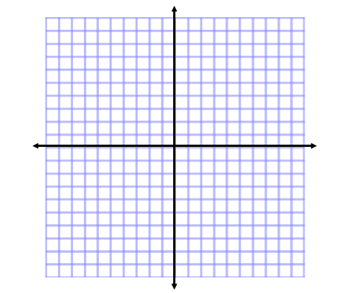
**Graphing Exponential Funtions**

Name:

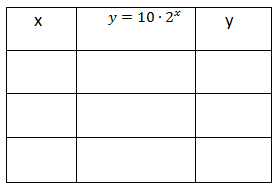
**WARM-UP:**

**Match each function with the graph of the function.**

1. **2. 3.** *x* **4.** x



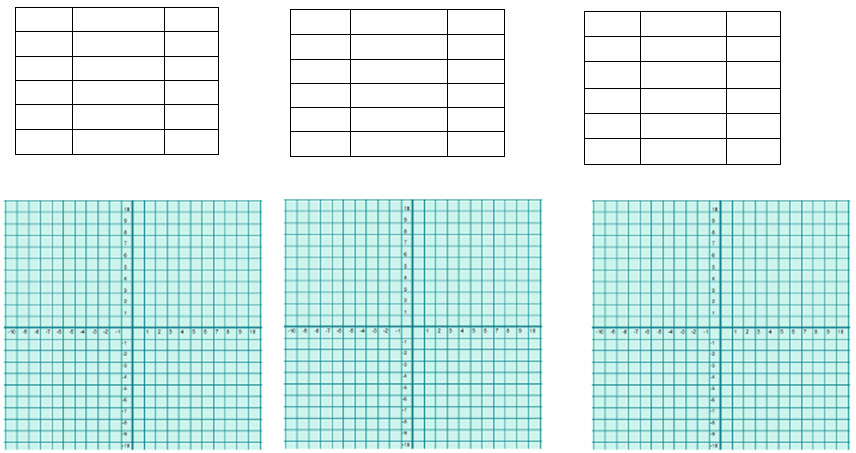
**Evaluate each function for the domain {-2, 0, 2}.**

**1.**  **2.**

|  |  |  |
| --- | --- | --- |
| x |  | y |
|  |  |  |
|  |  |  |
|  |  |  |

**Exponential Function:** A function that repeatedly multiplies an initial amount by the same positive number. You can model all exponential functions using *y = abx*, where *a* is a nonzero constant, *b* > 0, *b* ≠ 1.

**Graph each function***.*

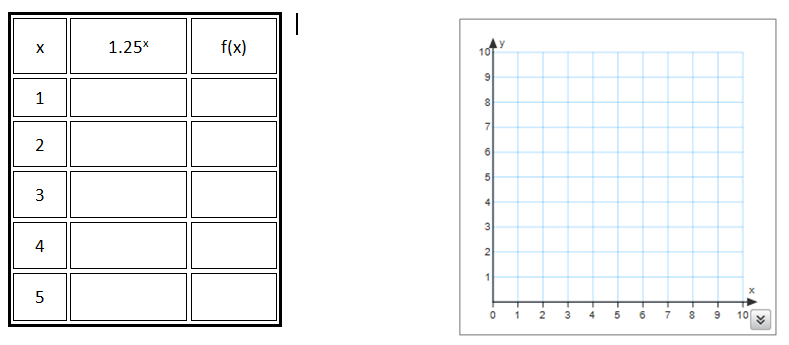
**3.**  **4.**  **5.**  

y-intercept: y-intercept: y-intercept:

domain: domain: domain:

range: range: range

**6.** The function *f(x)* = 1.25*x* models the increase in size of an image being copied over and over at 125% on a photocopier. Graph the function.



|  |
| --- |
|  |

**WORKSHOP:**

**Graph each function.**

**1.**  **2**.

