**Logarithms Introduction**

1. (a) Complete the tables below for the given exponential and logarithmic functions.

y = 2x 

(b) Graph these two functions along   
 with y = x on the coordinate  
 grid. Include any asymptote(s)  
 and intercept(s).

(c) What do you notice about the  
 tables in part (a)? What do you  
 notice about the graphs?

Conversions from one form to another

Use **logax = y ↔ ay = x**

2. Complete the chart, converting the given equation from one form to the other.

|  |  |
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| **Logarithmic form** | **Exponential form** |
| (a) |  |
| (b) log 0.001 = -3 |  |
| (c) |  |
| (d) |  |
| (e) |  |
| (f) |  |