



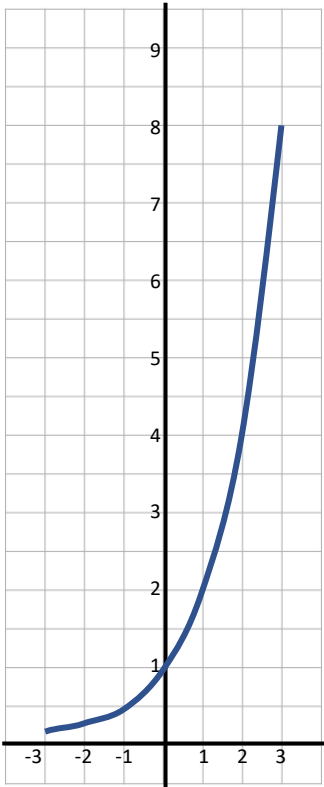
Name: _____



Plot the following exponential graphs:

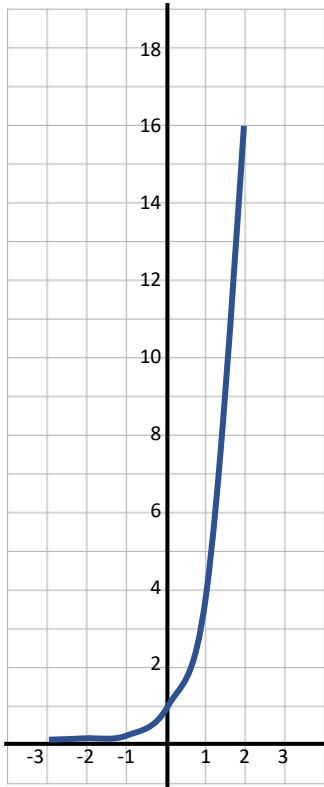
a) $y = 2^x$

x	-3	-2	-1	0	1	2	3
y	0.1	0.3	0.5	1	2	4	8



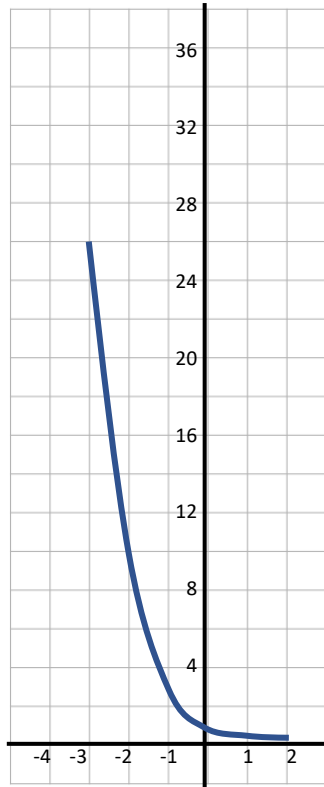
b) $y = 4^x$

x	-3	-2	-1	0	1	2
y	0.0	0.1	0.3	1	4	16



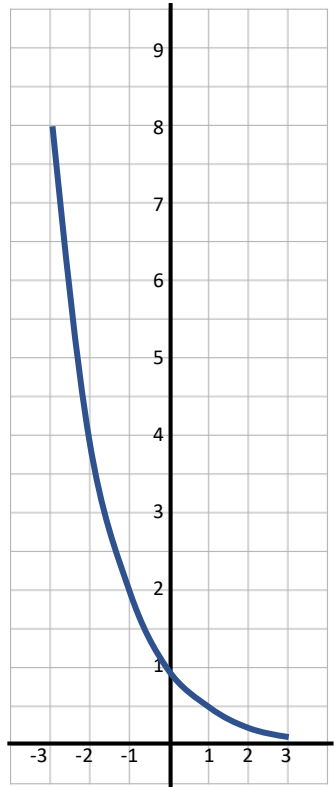
c) $y = 3^{-x}$

x	-3	-2	-1	0	1	2
y	27	9	3	1	0.3	0.1



d) $y = 0.5^x$

x	-3	-2	-1	0	1	2	3
y	8	4	2	1	0.5	0.3	0.1



Tick only the statements below which are "True" of the graphs

1) $y = 8^x$ passes through the point (0, 8)

4) $y = 0.5^x$ passes through the point (1, 0.5)

2) $y = 3^x$ passes through the point (2, 6)

5) $y = 2^{-x}$ passes through the point (0, 1)

3) $y = -2^x$ passes through the point (3, -8)

6) $y = 0.25^x$ passes through the point (-1, 4)

Find the corresponding y co-ordinate of the given x co-ordinate which lie on the given exponential graphs

e) $y = 3^x$ where $x = 4$

y = **81**

e) $y = 0.5^x$ where $x = 3$

y = **0.125**

f) $y = 2^x$ where $x = 5$

y = **32**

f) $y = 0.5^{-x}$ where $x = 4$

y = **16**

g) $y = -2^x$ where $x = 4$

y = **16**

g) $y = -2^{-x}$ where $x = 4$

y = **0.0625**

Exam question:

Complete the table of values for the graph of $y = 3^x$

x	-3	-2	-1	0	1	2	3
y	0.037	0.111	0.333	1	3	9	27

