

**Worksheet 9 KEY – Exponential Functions (§5.2)**

1. Good luck.

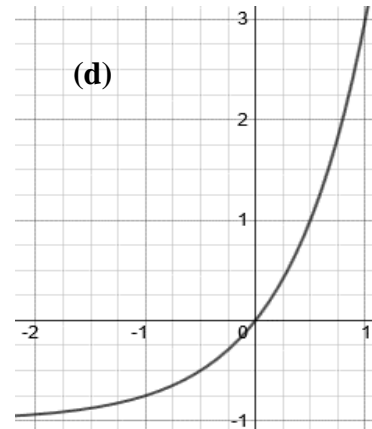
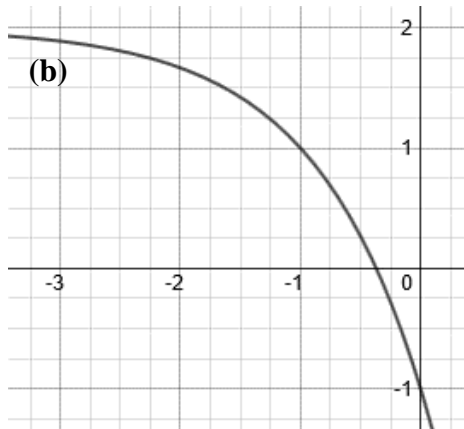
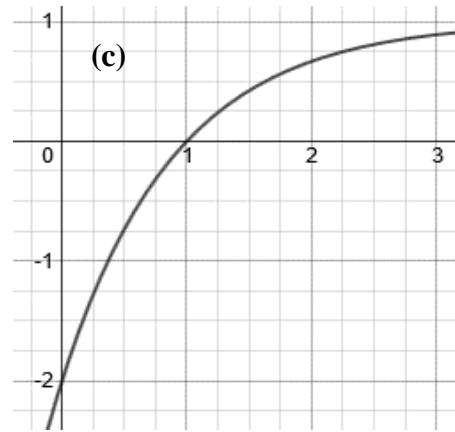
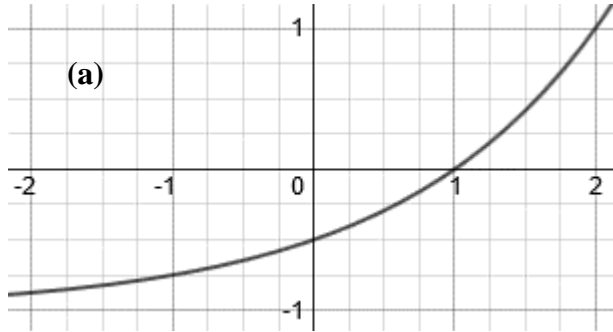
2.

(a)  $\mathbb{R}, (-1, \infty), y = -1$

(b)  $\mathbb{R}, (-\infty, 2), y = 2$

(c)  $\mathbb{R}; (-\infty, 1), y = 1$

(d)  $\mathbb{R}; (-1, \infty), y = -1$



3.  $N(t) = 100 \left(\frac{1}{2}\right)^t$

4.  $B(x) = 25(2)^x$ ; 102,400 bunnies