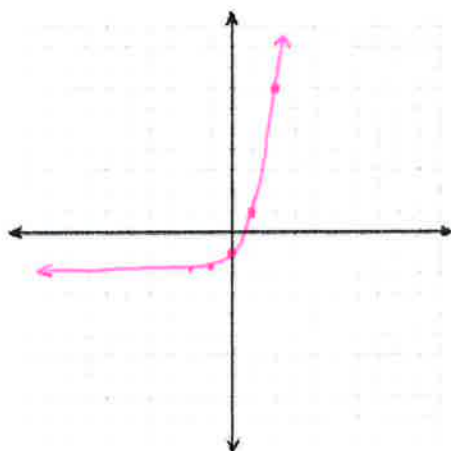


## Graphs of Functions

Graph each function and state the y-intercept.

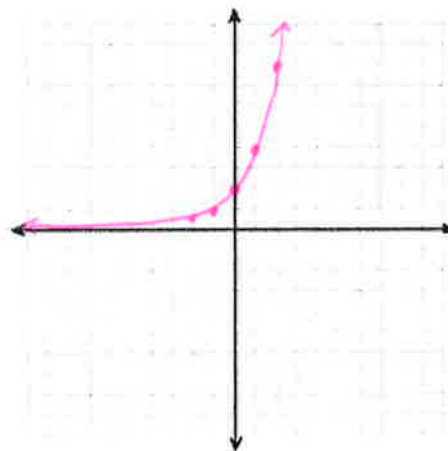
1)  $Y = 3^x - 2$

Y – intercept:  $(0, -1)$



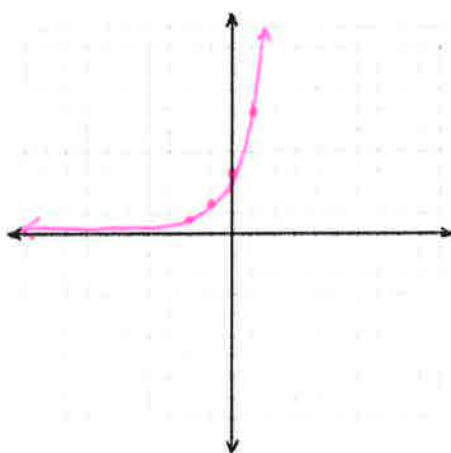
2)  $Y = 2^{x+1}$

Y – intercept:  $(0, 2)$



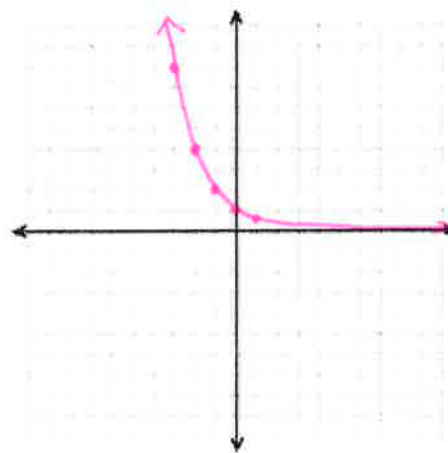
3)  $Y = 3 \cdot 2^x$

Y – intercept:  $(0, 3)$



4)  $Y = (1/2)^x$

Y – intercept:  $(0, 1)$



## Review of Sequences

Tell whether each situation produces an arithmetic sequence, geometric sequence, or neither.

- 1) The temperature rises at the rate of  $0.75^{\circ}\text{F}$  per hour. arithmetic
- 2) A person loses 2 pounds each month. arithmetic
- 3) A toadstool doubles in size each week. geometric
- 4) A person receives a 6% raise each year. geometric