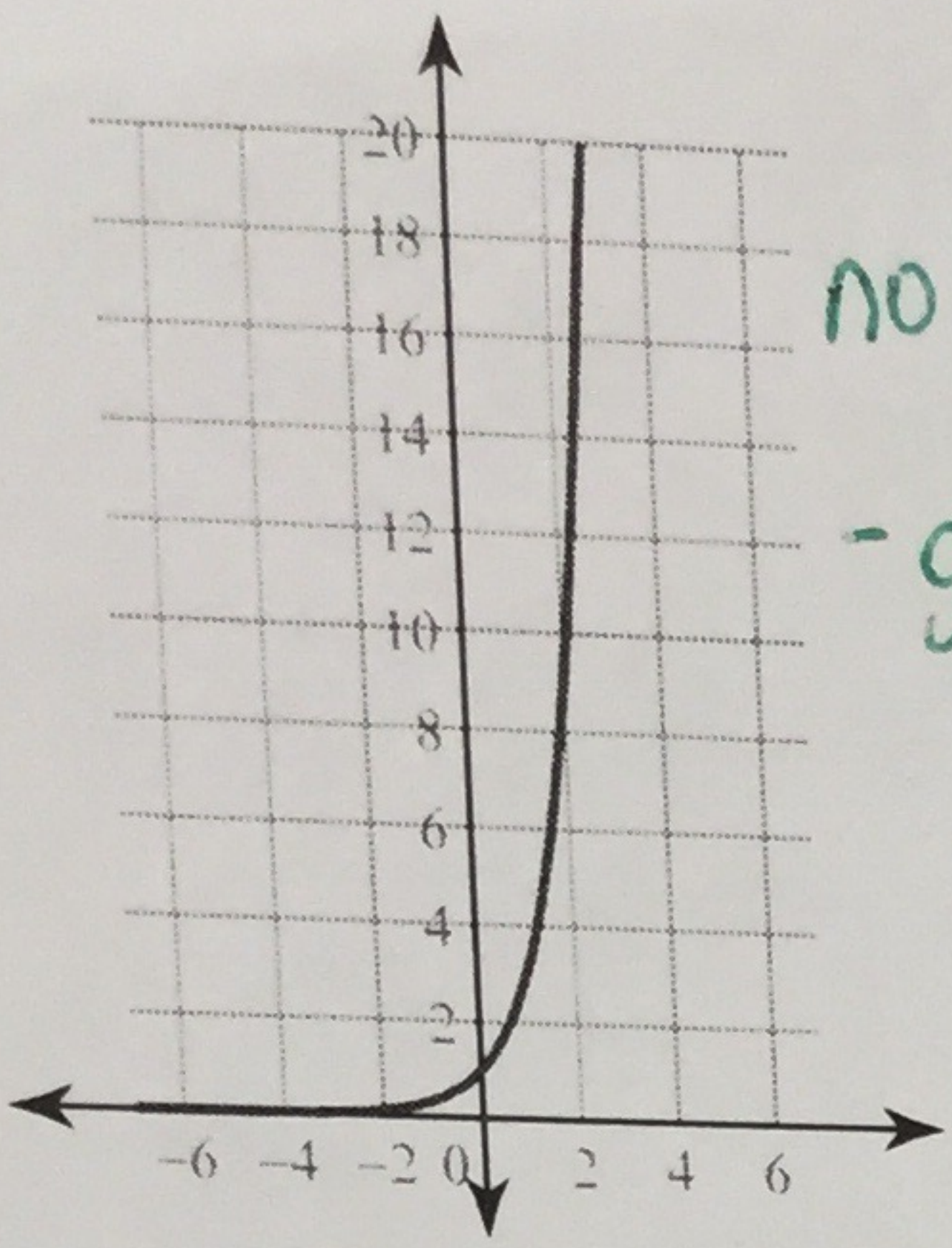


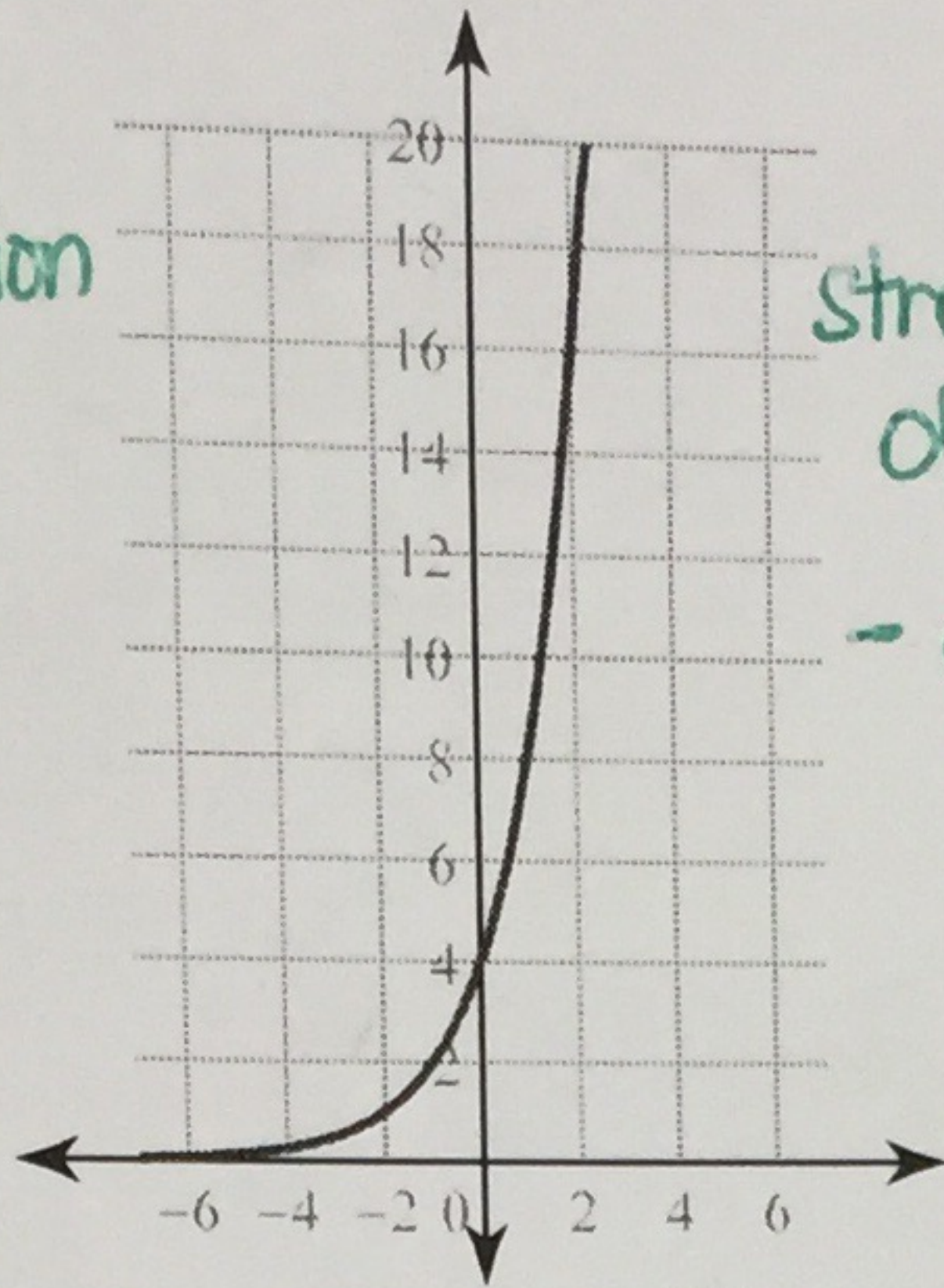
# Answers to Section 12.2--Graphing Exponential Functions (ID: 1)

1)



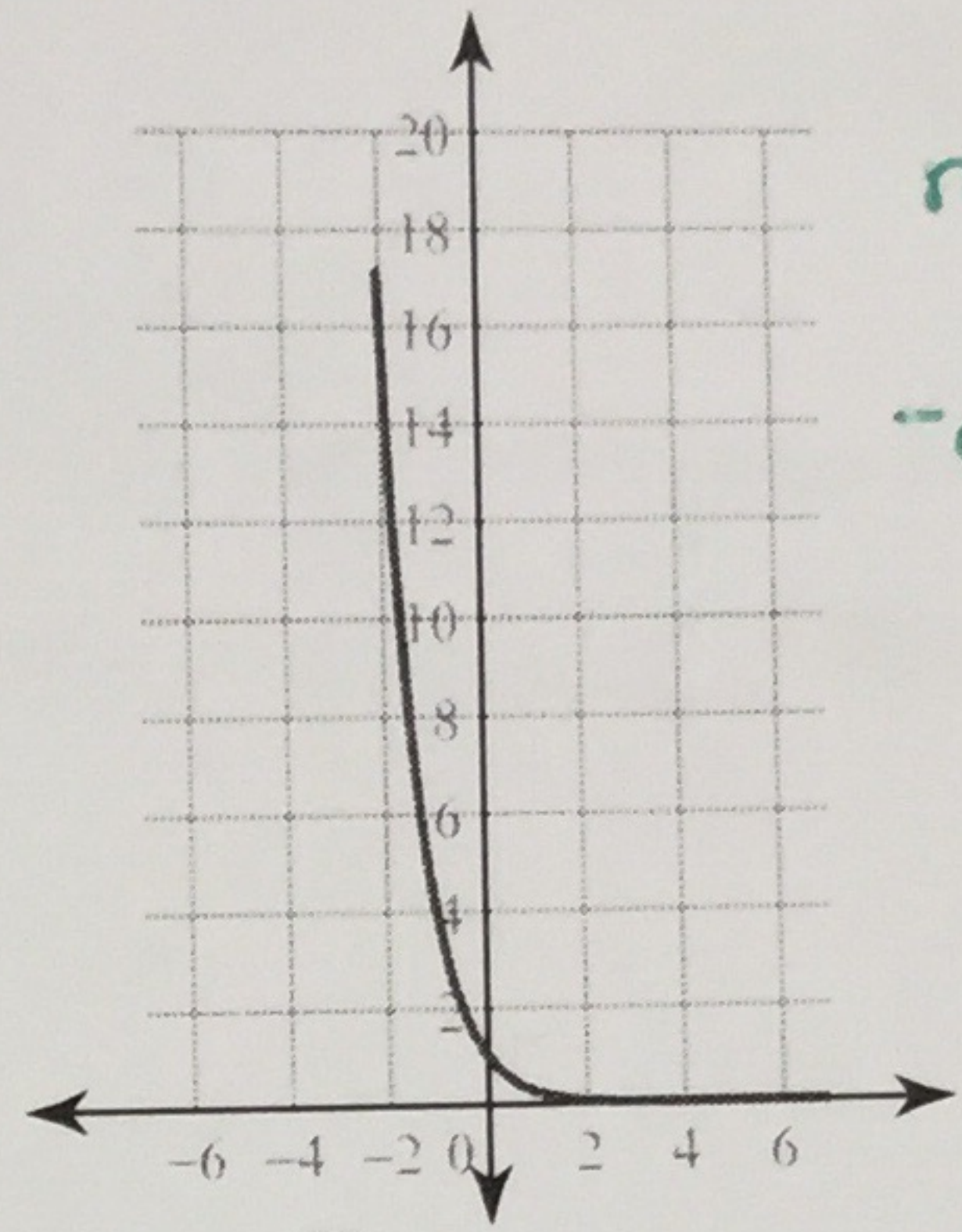
no transformation  
- growth

2)



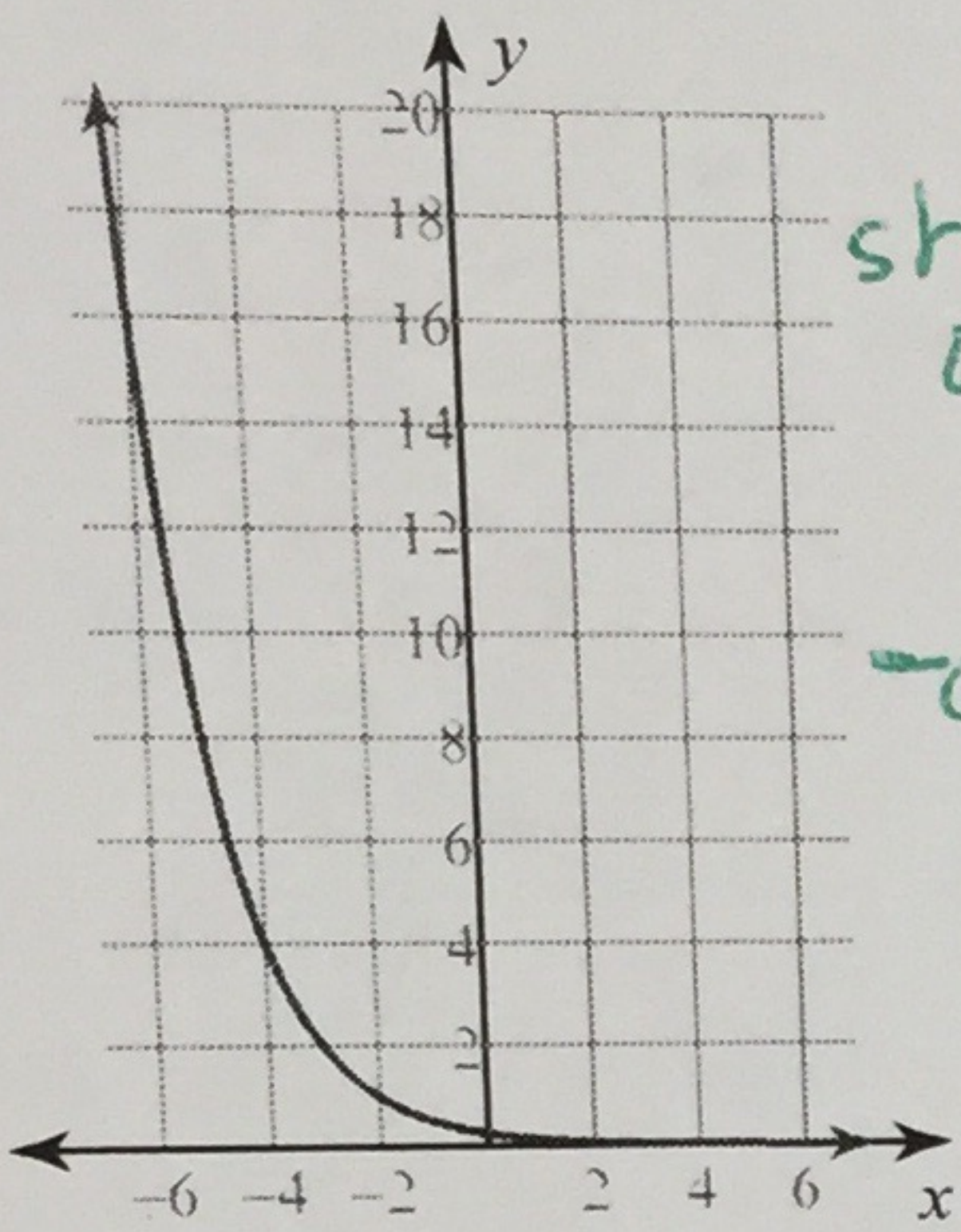
stretch of 4  
- growth

3)



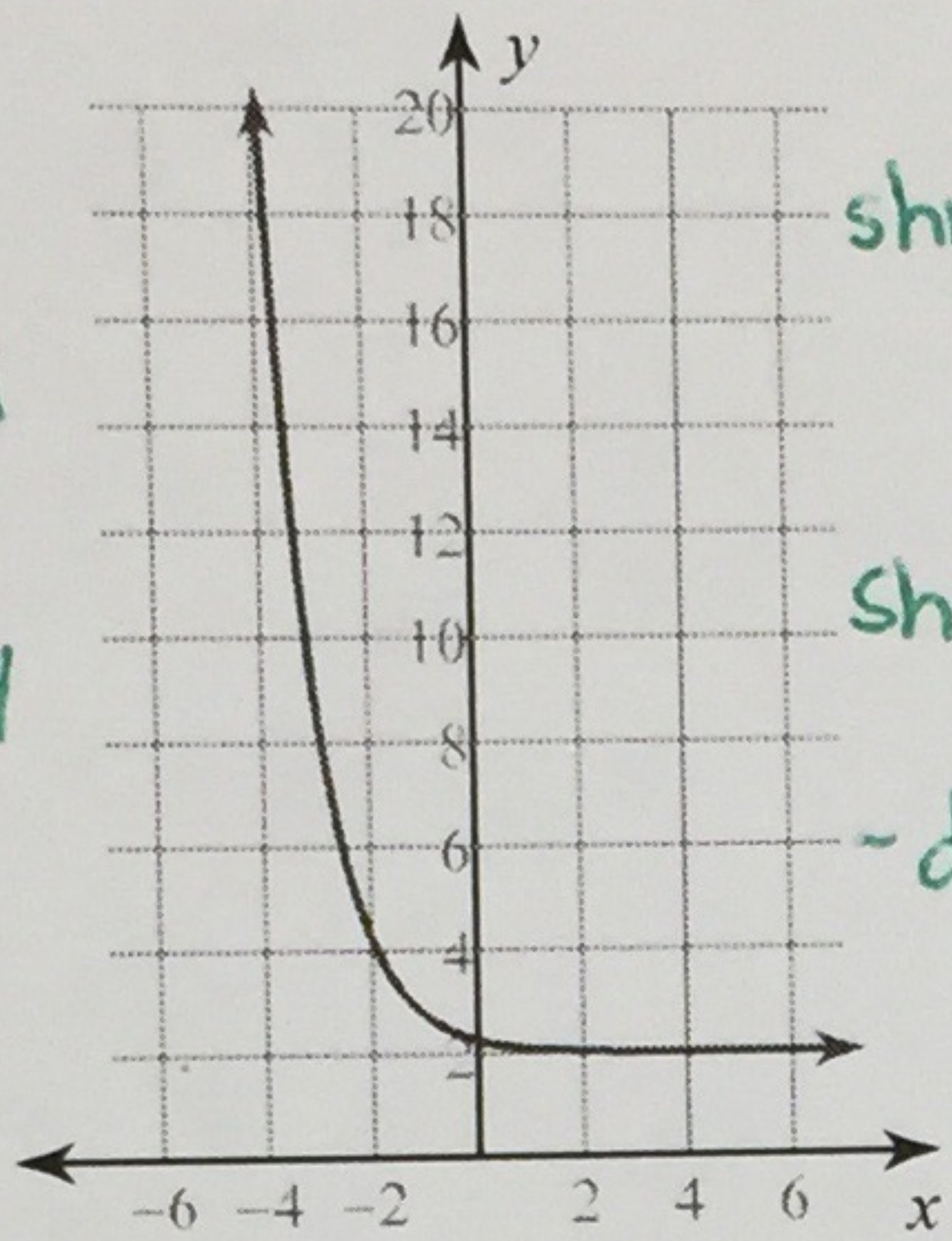
no transformation  
- decay

4)



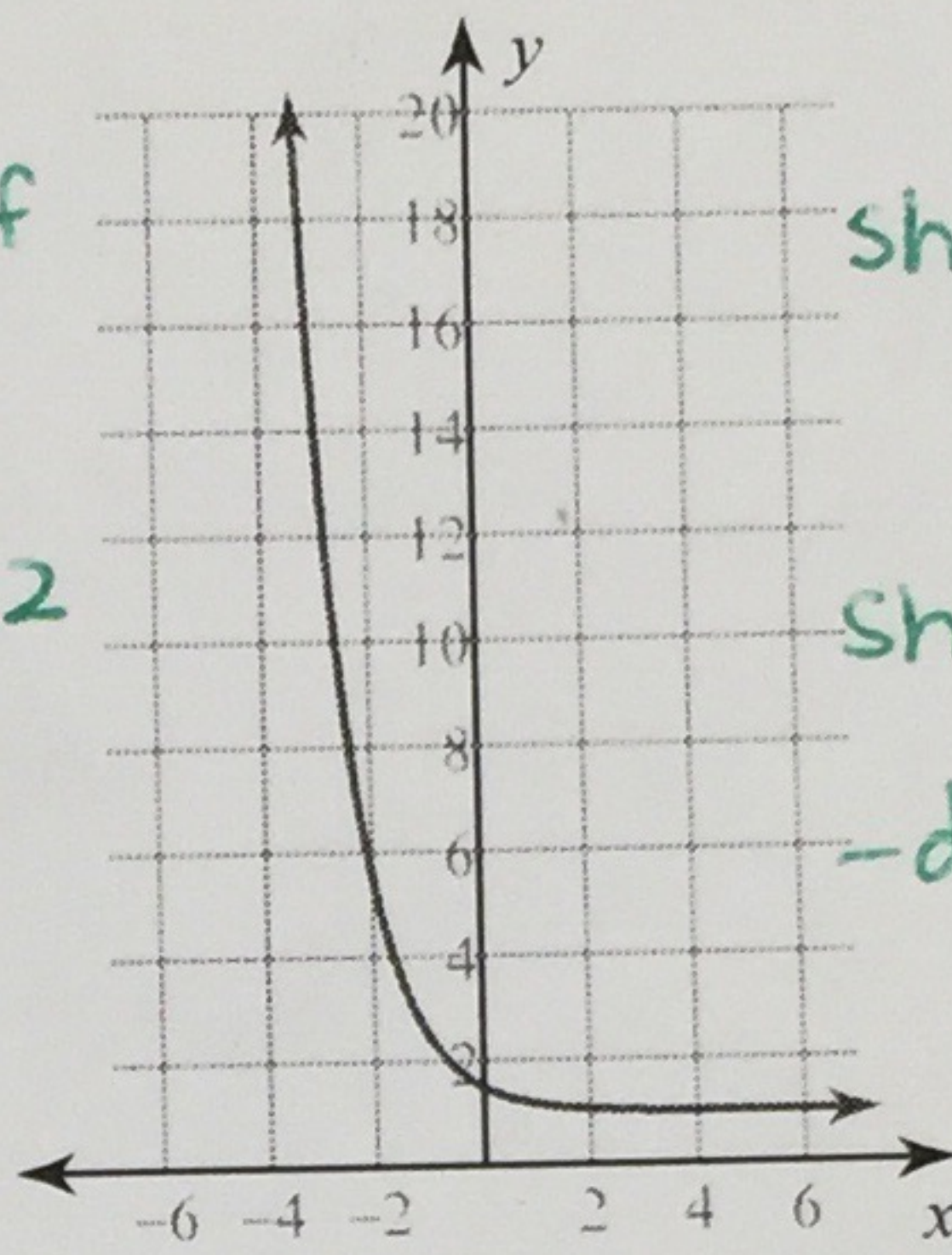
shrink of 1/4  
- decay

5)



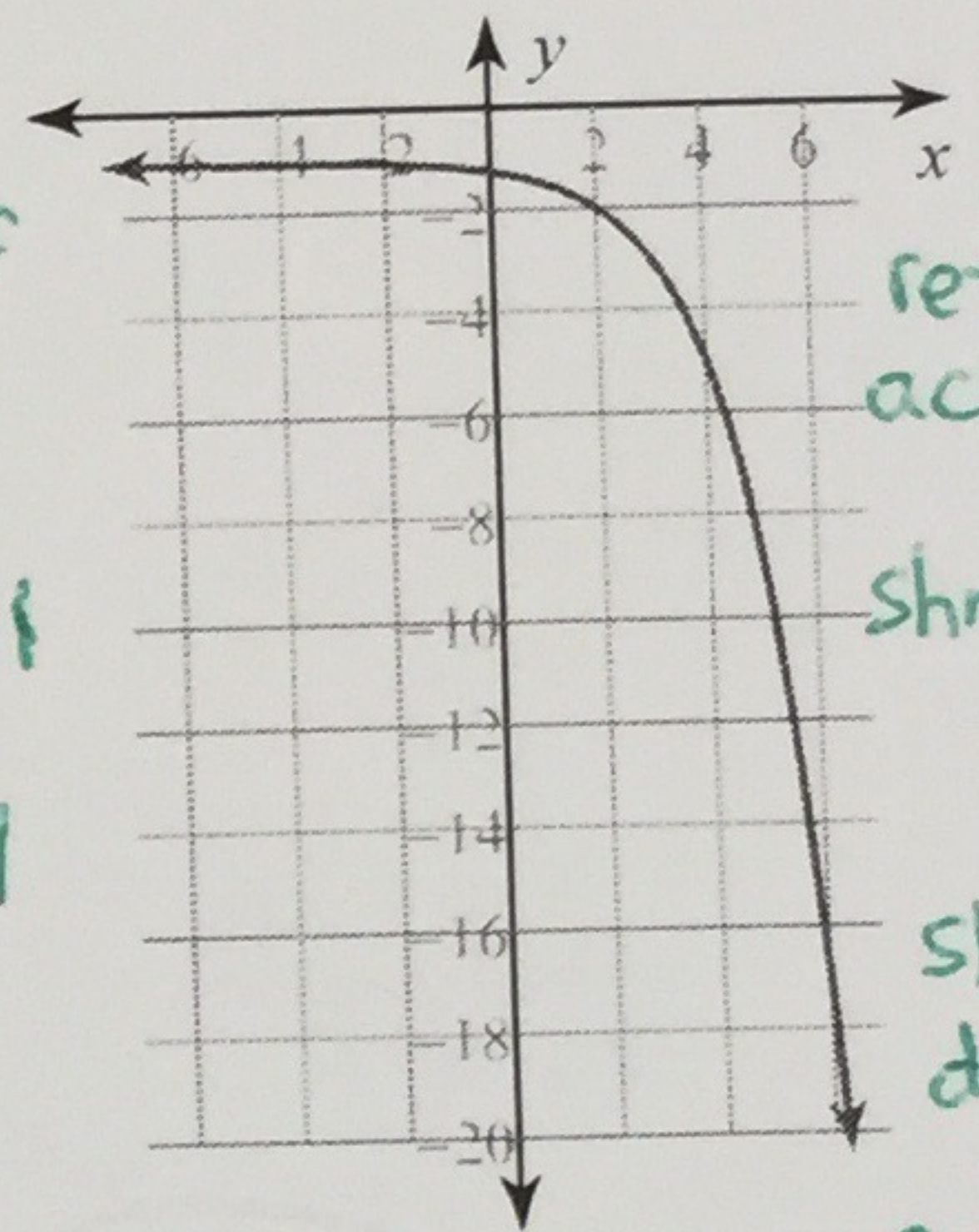
shrink of 1/4  
shift up 2  
- decay

6)



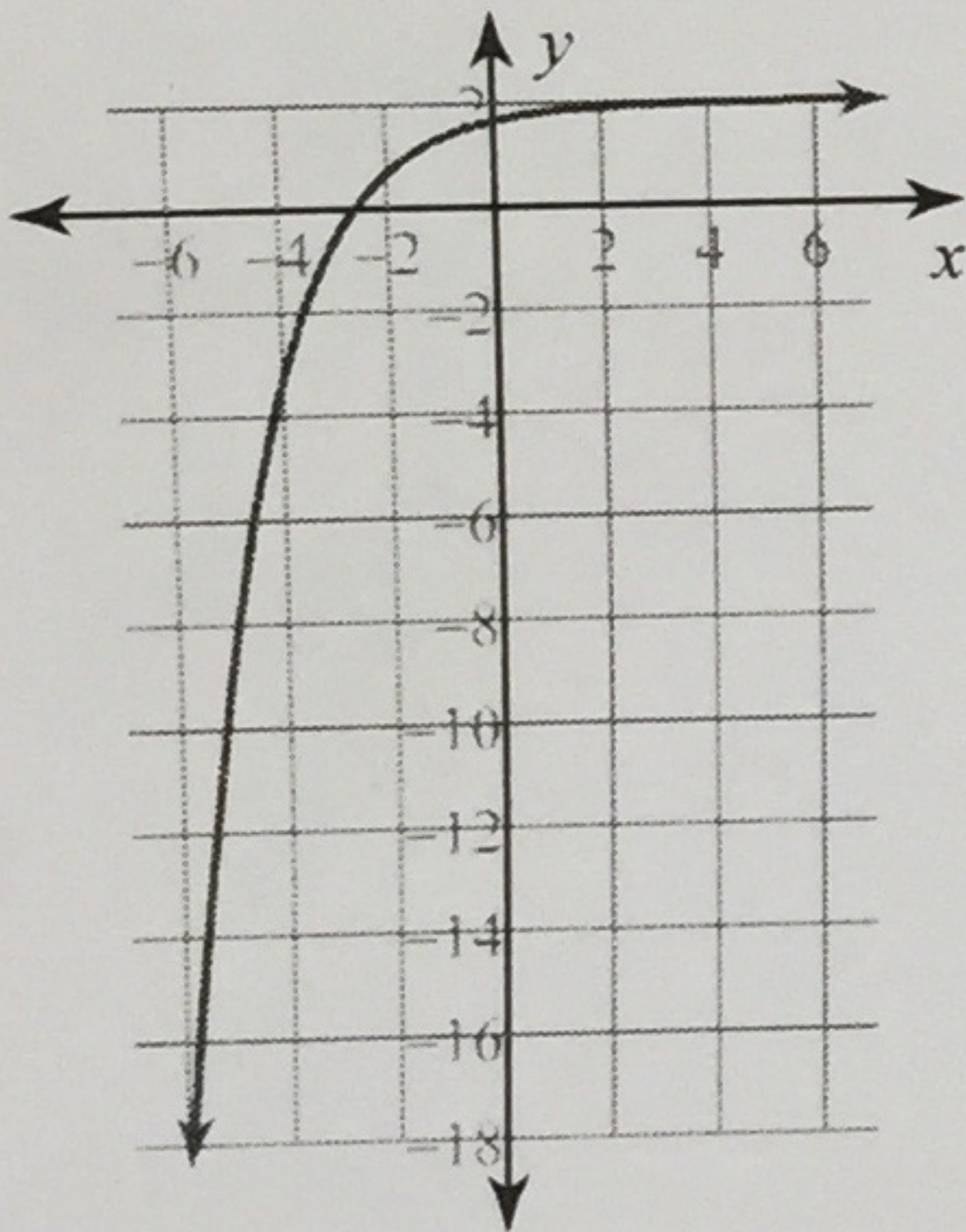
shrink of 1/2  
shift up 1  
- decay

7)



reflect across x  
shrink of 1/4  
shift down 1  
- growth

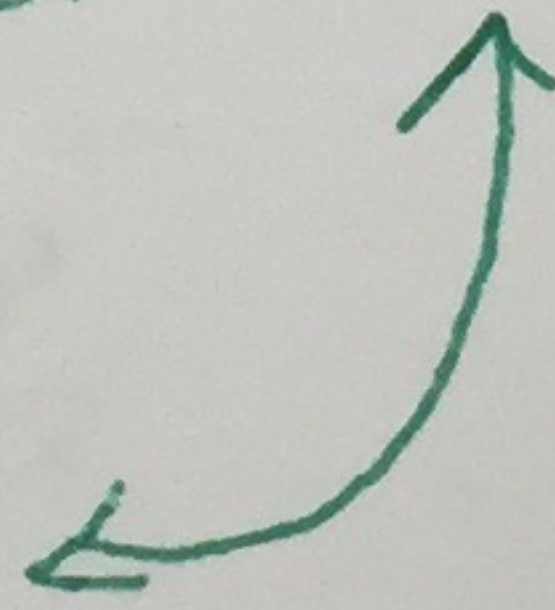
8)



reflect across x  
shrink of 1/3  
shift up 2  
- decay

Growth  $\rightarrow$  when  $b \geq 1$   
Decay  $\rightarrow$  when  $0 < b < 1$

Growth



Decay

