

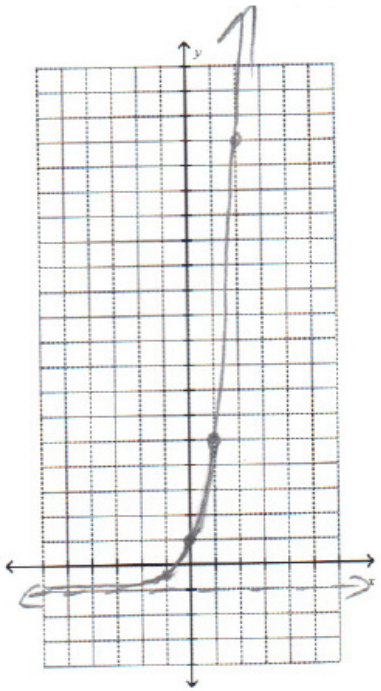
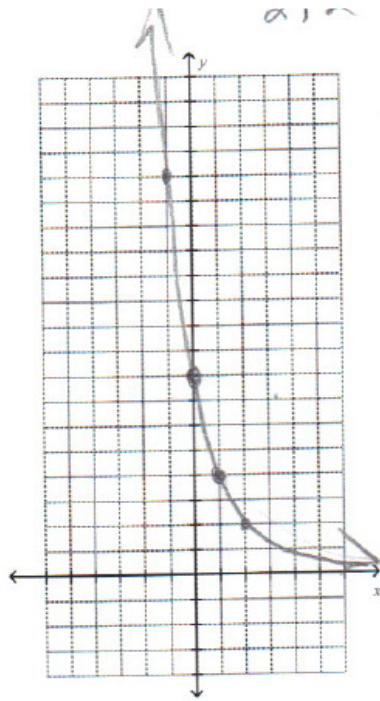
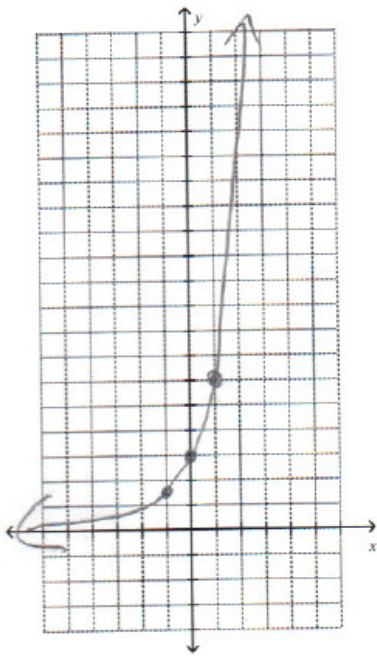
## S2 Just Checking Practice Answers

### JC #1 Practice – Week of 010416

1. 4, 12, 36
2. 13, 9, 7
3.  $x = 4$
4.  $x = 6$
5.  $x = 5$
6.  $x = \frac{2}{3}$

### JC #2 Practice – Week of 011116

- 1.
- 2.
- 3.



4a.  $f(x) = 729(1 + 0.24)^x$

b. 2137 quail

5a.  $f(x) = 1211(1 - 0.09)^x$

b. 756 humpback whales

6.  $x = 3$

7.  $x = -4$

8.  $x = \frac{5}{18}$

9.  $x = \frac{31}{8}$

10.  $x = 4$

JC #3 Practice – Week of 011816

1.  $3^4 = 81$

2.  $e^{1.386} \approx 4$

3.  $10^{0.477} \approx 3$

4.  $\log_8 512 = 3$

5.  $\log_e 20.086 \approx 3$  or  $\ln 20.086 \approx 3$

6.  $n = 5$

7.  $n = -4$

8.  $n = \frac{3}{5}$

9.  $\frac{\log 9}{\log 2} \approx 3.170$

10.  $\frac{\ln 11}{\ln 5} \approx 1.490$

JC #4 Practice – Week of 012516

1.  $\log m + \log n$

2.  $\ln r - \ln s$

3.  $5 \log y$

4.  $\ln p + \ln q + \ln r$

5.  $\log_7 a - \log_7 b - \log_7 c$

6.  $7 \log_2 m + \log_2 n - \log_2 r$

7.  $\log 21$

8.  $\log 162$

9.  $\log 6^{\frac{1}{5}}$

10.  $\ln \frac{x^4}{y^7 z^3}$

JC #5 Practice – Week of 020116

1.  $x = 5 + \frac{\log 6}{\log 7}$   
 $x \approx 5.921$

2.  $x = \frac{5}{2} + \frac{\ln 479}{x}$   
 $x \approx 5.586$

3.  $x = \frac{2}{5} + \frac{e^2}{5}$   
 $x \approx 1.878$

4.  $x = \frac{23}{3}$

5.  $x = 972$

JC #6 Practice – Week of 020816

1. VA:  $x = 4$

D:  $(-\infty, 4)(4, \infty)$

HA:  $y = 0$

y-int:  $(0, \frac{-1}{2})$

x-int: none

2. VA:  $x = 2$

D:  $(-\infty, 2)(2, \infty)$

HA:  $y = 1$

y-int:  $(0, -3)$

x-int:  $(-6, 0)$

3. VA:  $x = 3$

D:  $(-\infty, 3)(3, \infty)$

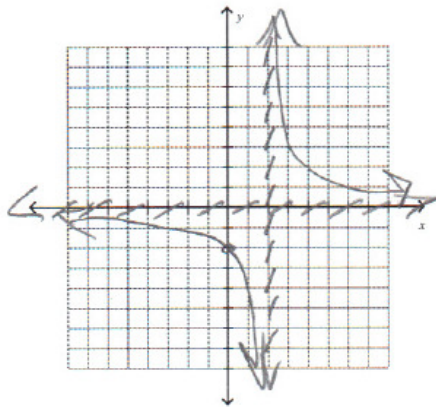
HA:  $y = -4$

y-int:  $(0, \frac{-17}{3})$

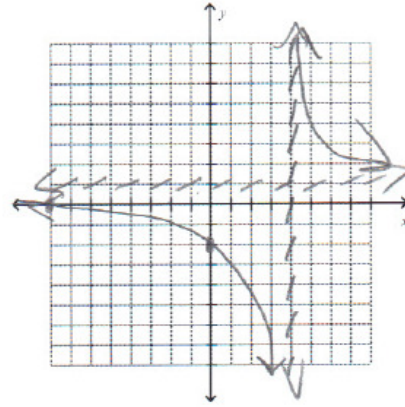
x-int:  $(\frac{17}{4}, 0)$

JC #7 Practice – Week of 021516

1.



2.



3.

