

May 10

GUIDED NOTES: Graphs of Logarithmic and Exponential Functions

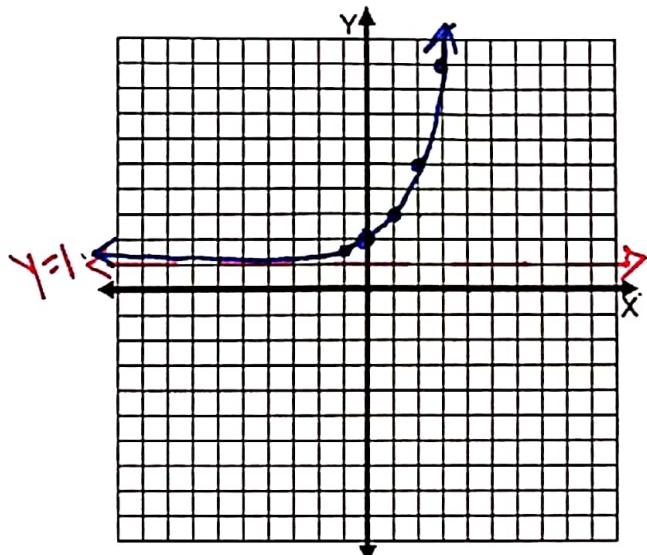
EX1. Graph $f(x) = 2^x + 1$

domain: $(-\infty, \infty)$

range: $(1, \infty)$

horizontal asymptote: $y = 1$

end behavior: as $x \rightarrow -\infty, y \rightarrow 1$
as $x \rightarrow \infty, y \rightarrow \infty$



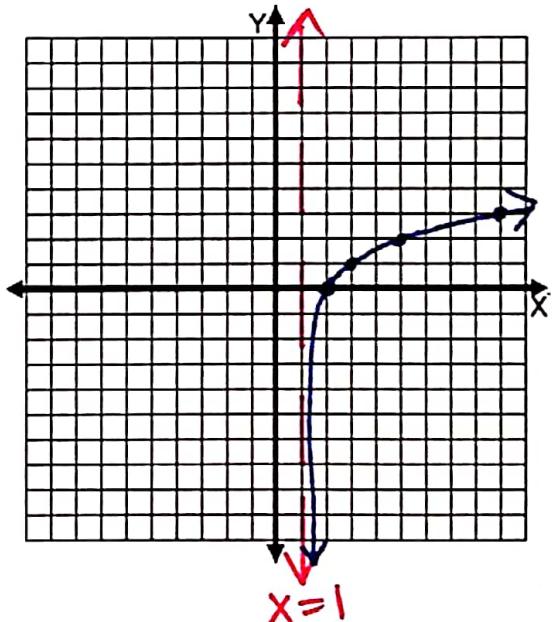
EX2. Graph $f(x) = \log_2(x - 1)$

domain: $(1, \infty)$

range: $(-\infty, \infty)$

vertical asymptote: $x = 1$

end behavior: as $x \rightarrow -\infty, y \rightarrow -\infty$
as $x \rightarrow \infty, y \rightarrow \infty$



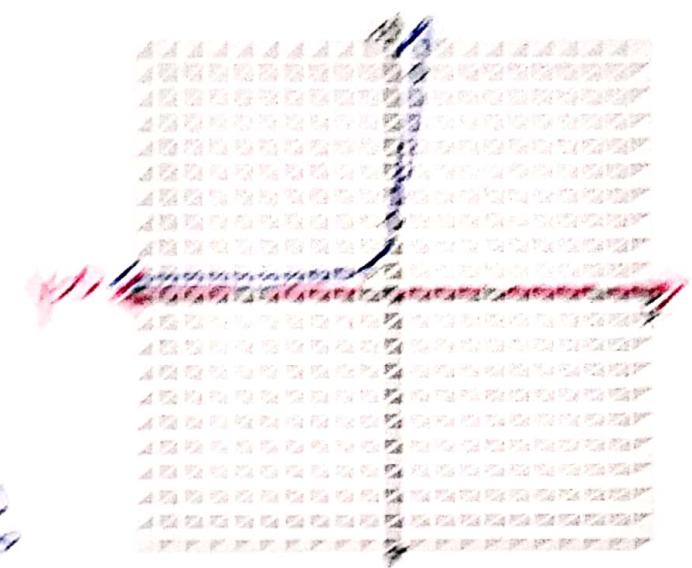
E14. Grade 11, -1st gr 3

Answer (-60, 60)

Answer (0, 60)

Answer 100% 100%

Answer 0.5000000000000001, 0.5000000000000001
0.5000000000000001, 0.5000000000000001



E16. Grade 11, -1st gr 3

Answer (0, 40)

Answer (-40, 0)

Answer 100% 100%

Answer 0.5000000000000001, 0.5000000000000001
0.5000000000000001, 0.5000000000000001

