Coach Sassy

Notes for graphing base *e*

Use the same rules for graphing exponentials.

$f(x) = e^x$

$e = 2.718281828....$ So *e* is just a number!

e is always a growth

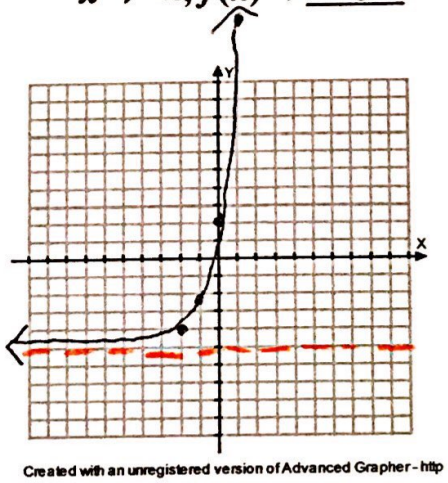
Graph and analyze

1. $f(x) = e^{x+2} - 5$ ← asymptote

Yint: 2.3 Asymp: $y = -5$ D: $(-\infty, \infty)$ R: $(-5, \infty)$

EB: $x \to +\infty, f(x) \to \infty$

$x \to -\infty, f(x) \to -5$



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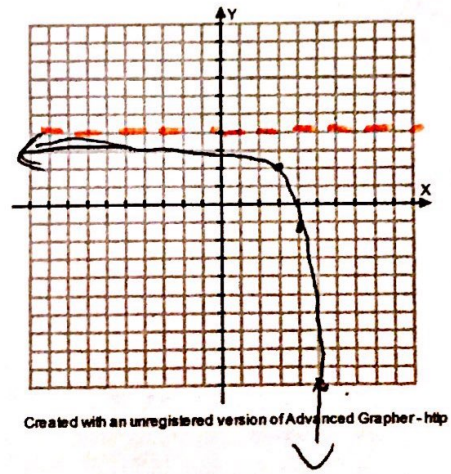
x	y
-2	-4
-1	-2.2
0	2.3
1	15

2. $y = -2e^{x-3} + 4$ ↘

Yint: 3.9 Asymp: $y = 4$ D: $(-\infty, \infty)$ R: $(-\infty, 4)$

EB: $x \to +\infty, f(x) \to -\infty$

$x \to -\infty, f(x) \to 4$



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x	y
0	3.9
3	2
4	-1.4
5	-10