

Name: _____

This quiz covers: 1.5, 1.6, 1.7, 2.1 and 2.2.

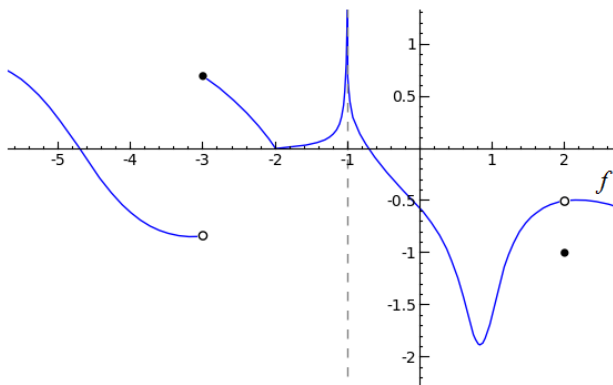
Directions: Complete all question and **show all applicable work.** Partial credit will be given. All questions are equally weighted.

1.) Compute the inverse of: $f(x) = 4 + 2 \ln(x + 5)$. Be sure to state the domain and range.

2.) Let $x = \sin t$ and $y = 2 \cos t$. Sketch a parametric curve of $(x(t), y(t))$.

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3.)



Using the graph above, compute:

- a. $\lim_{x \rightarrow -3^+} f(x)$
- b. $\lim_{x \rightarrow -3^-} f(x)$
- c. $\lim_{x \rightarrow -3} f(x)$
- d. $f(x)$

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Answers

- 1.)
- 2.) Ellipse centered at origin, with radius 1 in the x-axis and radius 2 in the y-axis.
- 3.)