

Name: _____

Date: _____

Problem-Based Task: Medication Levels in the Bloodstream

Coaching

- a. What are the asymptotes of the function $f(x) = \frac{10x}{x^2 + 1}$?
- b. What are the zero(s) and y -intercept of the function?
- c. Use the key features found in parts a and b to graph the function.
- d. What portion of the graph represents the concentration of medication in Andy's bloodstream?
- e. After how many hours will the medication completely leave Andy's system?