

Name: _____

Date: _____

Problem-Based Task: When Is the Next Dose Due?

Coaching

- a. Using synthetic substitution, what is $M(3)$?

- b. Using synthetic substitution, what is $M(4)$?

- c. Using synthetic substitution, what is $M(5)$?

- d. Using synthetic substitution, what is $M(6)$?

- e. For each value of t given in parts a–d, what does a remainder mean in terms of the context of the problem?

- f. What does a remainder of 0 mean in the context of the problem?

- g. After how many hours is the medication completely eliminated from the bloodstream?

- h. Why would the package directions suggest taking a second dose after 4–6 hours?

- i. Are these directions accurate?