

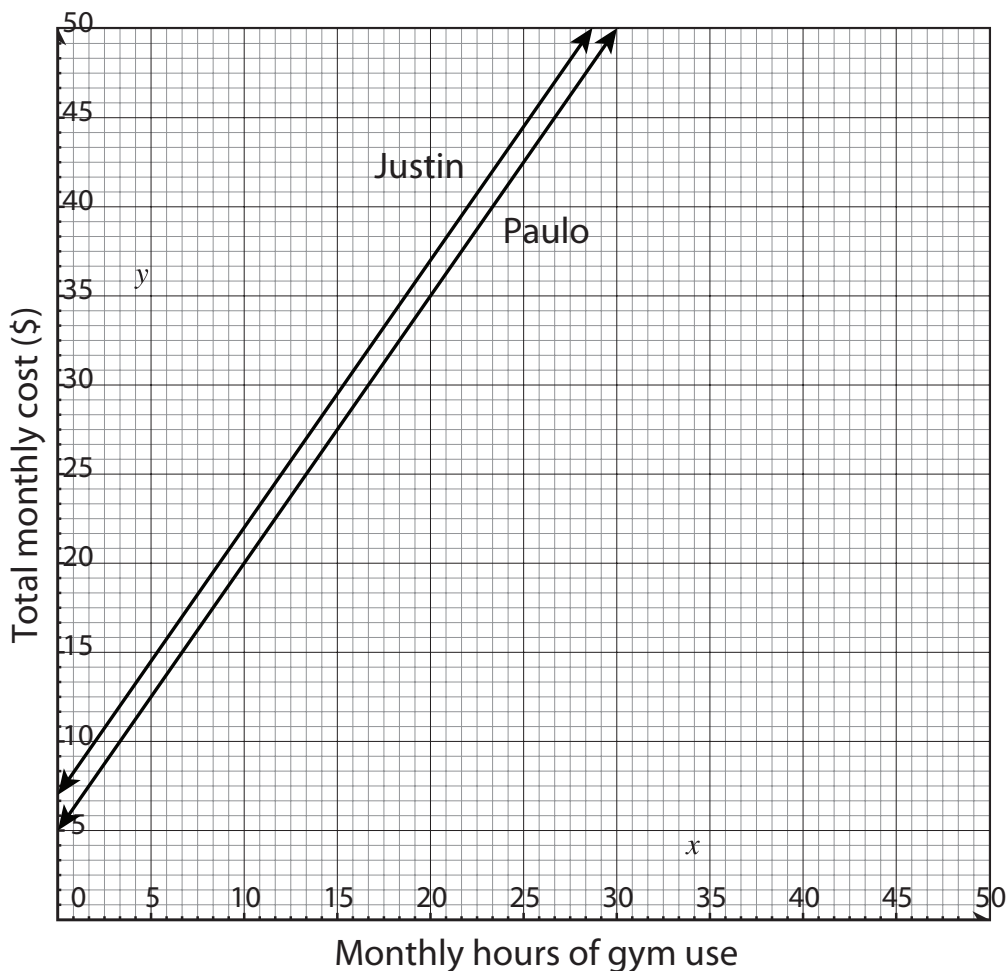
NAME: _____

UNIT 3 • LINEAR AND EXPONENTIAL FUNCTIONS

Lesson 7: Operating on Functions and Transformations

Problem-Based Task 3.7.2: Gym Fees

Paulo and Justin belong to the same gym. The graph below shows how much each man pays per month in gym fees. Both pay the same per-hour use fee, but Paulo gets an employee discount, so his monthly membership fee is different from Justin's membership fee. What is a function rule that represents Paulo's total monthly gym fees? What is a function rule that represents Justin's total monthly gym fees? What is the difference in their fees?



NAME: _____

UNIT 3 • LINEAR AND EXPONENTIAL FUNCTIONS

Lesson 7: Operating on Functions and Transformations

Problem-Based Task 3.7.2: Gym Fees

Coaching

- a. What is the slope of Paulo's graph?
- b. What is the y -intercept of Paulo's graph?
- c. What is a function rule representing Paulo's monthly gym fees?
- d. What is the slope of Justin's graph?
- e. What is the y -intercept of Justin's graph?
- f. What is a function rule representing Justin's monthly gym fees?
- g. How are the two functions the same? How are they different?
- h. For any given number of hours of use, what is the difference in the fees?