

Name: \_\_\_\_\_

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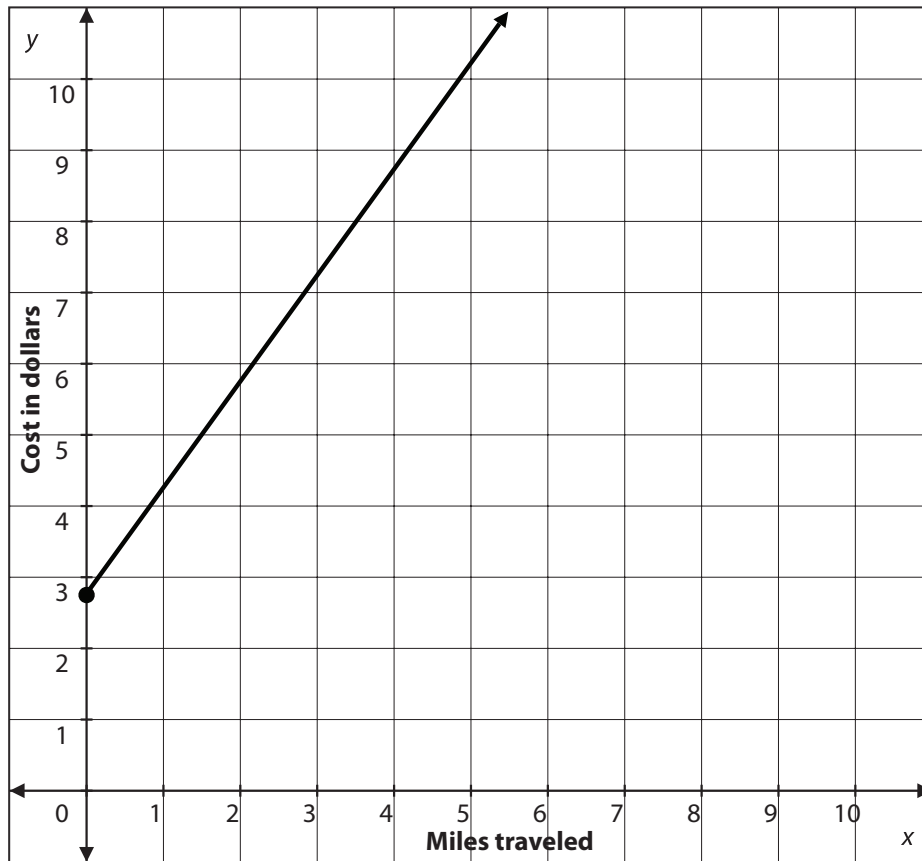
## UNIT 2 • LINEAR AND EXPONENTIAL RELATIONSHIPS

### Lesson 4: Interpreting Graphs of Functions

#### Scaffolded Practice 2.4.1

##### Example 1

A taxi company in Atlanta charges \$2.75 per ride plus \$1.50 for every mile driven. Determine the key features of this function.



1. Identify the type of function described.
  
  
  
  
  
  
  
  
  
  
2. Identify the intercepts of the graphed function.

*continued*



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## UNIT 2 • LINEAR AND EXPONENTIAL RELATIONSHIPS

### Lesson 4: Interpreting Graphs of Functions

#### Example 2

A pendulum swings to 90% of its height on each swing and starts at a height of 80 cm. The height of the pendulum in centimeters,  $y$ , is recorded after  $x$  number of swings. Determine the key features of this function.

Number of swings ( $x$ )	Height in cm ( $y$ )
0	80
1	72
2	64.8
3	58.32
5	47.24
10	27.89
20	9.73
40	1.18
60	0.14
80	0.02

#### Example 3

A ringtone company charges \$15 a month plus \$2 for each ringtone downloaded. Create a graph and then determine the key features of this function.