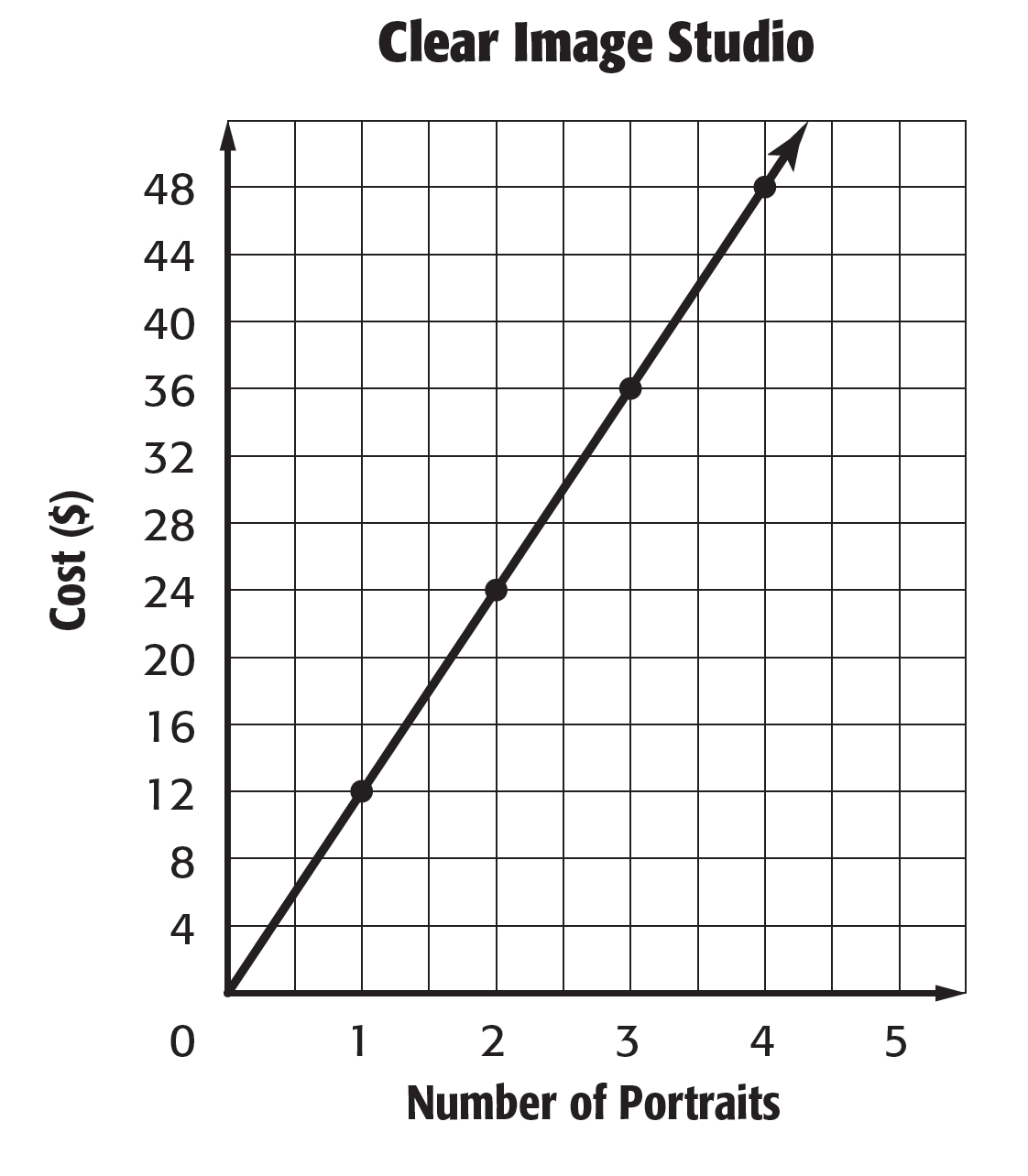
**Lesson 11 Homework Practice**

***Compare Linear Functions***

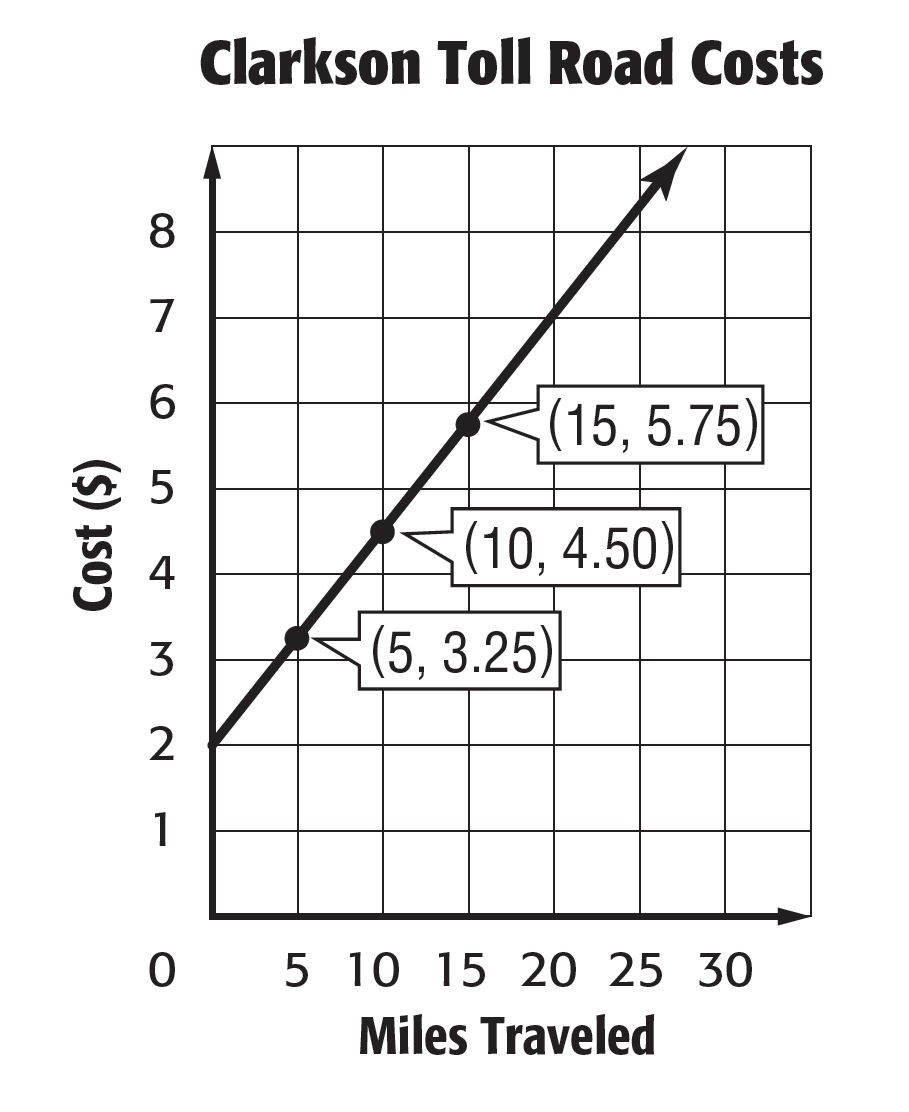
**1. PORTRAITS** Paolo’s Portraits charges $15 per photo with no sitting fee. The graph shows the fees for Clear Image Studio. Compare the functions by comparing their rates of change.



**2. COMMISSION** Joshua earns a salary plus a commission for every painting he sells. The equation *y* = 40*x* + 75, where *y* is the commission in dollars and *x* is the number of paintings, represents how much he earns. Martin’s commissions are shown in the table. Compare the functions by comparing their *y*-intercepts and rates of change.

|  |  |  |  |
| --- | --- | --- | --- |
| **Number of**  **Paintings Sold (x)** | 1 | 2 | 3 |
| **Commission ($) (y)** | 115 | 150 | 185 |

**3. TOLL ROADS** The table shows the cost for traveling on a toll road in Henderson. The graph shows the cost of traveling on a toll road in Clarkson. Compare the linear functions to determine which is a direct variation(proportional. Justify your response.



|  |  |
| --- | --- |
| **Henderson Toll Road Costs** | |
| **Miles**  **Traveled** | **Cost ($)** |
| 10 | 3 |
| 20 | 6 |
| 30 | 9 |