$\qquad$ Pd $\qquad$ Date $\qquad$ Section 1.C. 7
Sam's gym has a registration fee of $\$ 10$, plus he pays $\$ 3$ for every visit. Write a linear equation for his gym expenses. Make a table. Make a graph.

| $\mathbf{X :}$ | $\mathbf{Y}:$ |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
|  |  |

Ciara's gym has a registration fee of $\$ 14$, but she only pays $\$ 1$ for every visit. Write a linear equation for his gym expenses. Make a table. Make a graph.

| $\mathbf{X}:$ | $\mathbf{Y}:$ |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
|  |  |

After how many visits would Sam and Ciara have spent the same amount on their gym memberships? Find the answer by setting the equations equal to each other. Confirm your answer with the table and the graph.

**KEY IDEA: When you solve an equation with variables on both sides, you are finding the solution algebraically:
graphically:
on the table:

## Special Solutions



