**Name**

## 3-2A  Lesson Master

**USES** Objective D

**In 1 and 2, define the variable and represent the relationship with an equation.**

1. The gas tank in Tanya's car holds 14.6 gallons. Her car averages 23 miles per gallon. If Tanya starts with a full tank of gas, how many miles can she drive before there are only two gallons left?

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2. Avery is saving for a used car that costs $12,000. He has $3,350 in his savings account and saves $325 per week. How many weeks will it be before Avery can buy his car?

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**REPRESENTATIONS** Objective E

**In 3 and 4, solve the equation by making a table and circling the row on the table that contains the solution.**

3. $9 = 4x - 3$

| x | 4x − 3 | y |
|---|--------|---|
| 1 | $4(1) - 3$ | |
| 2 | $4(\ ) - 3$ | |
| 3 | | |
| 4 | | |
| 5 | | |

4. $-3x + 5 = -4$

| x | −3x + 5 | y |
|---|---------|---|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |

**In 5 and 6, solve the equation by making a graph and drawing lines from the y-axis to the graph, and then to the x-axis to indicate the solution.**

5. $-2x + 4 = -2$



6. $5 = 3x + 2$