**STUDY GUIDE Unit 2**

**CL 2-101.** For the line graphed at right:

* 1. Find the slope.
	2. Find the *y*-intercept.
	3. Write the equation.

**CL 2-102.** Find *m* and *b* in the following equations. What do *m* and *b* represent?

1. *y* = 1 + 2*x*  b. *y* = **− 4

**CL 2-104.** Frosty starts with $85 in the bank and saves $15 every 2 months.  Write an equation for the balance of Frosty’s bank account.

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**CL 2-105.** Find the slope for each linear relation described in the tables below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *x* | −2 | −1 | 0  | 1   | 2 |
| *y* | 19 | 14 | 9   | 4 | −1 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *x* | 2 | 3 | 4 | 5 | 6 |
| *y* | 22 | 31 | 40 | 49 | 58 |
|  |  |  |  |  |  |

**CL 2-106.** Write a rule for the given tile pattern. Hint: Make a table first.



How many tiles will be in figure 58?

 **CL 2-107.** Solve for *w*:  6*w*− 5 + 8*w*− 2*w* − 3 = 9*w* – 24

**CL2-108.**   Complete the table below for the rule y = *x*2 − 6x + 5. Then graph the rule.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *x* | −1 | 0    | 1   | 2    | 3   | 4   | 5   | 6    | 7    |
| *y* |   |  5 |   |   |   |  -3 |   |   |   |



1. Is the relation a function?
2. State the domain and range.

**CL 2-109.**  Find the slope of the line that passes through the points (−5, 7) and (10, 1).