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

Pre-Algebra

4.1: Parts of an Expression and More Translations

Hour:\_\_\_\_\_\_\_\_\_\_\_

Write each statement using number, variables and operations.

1. The sum of a number and 4 is greater than 15.
2. -9 times the quantity of a number minus 6 is the same as –18
3. The difference of a number and 13.
4. 3 less than a number.
5. A number cannot exceed 44.
6. The quotient of a number and 14 is less than or equal to 22.
7. -12 and the sum of a number is greater than that same number plus 7.
8. The product of a number and -3 minus -7.
9. 38 is the total of 43 and some number.
10. A number increased by 20 equals 16.
11. A number squared is at least 33.
12. The difference of 4 and a number cubed is less than 20.
13. A number decreased by 16 is zero.
14. The quotient of some number and the quantity of 3 times that same number minus 5.

State the number of terms, coefficients, constant terms and like terms for each expression. Then simplify each expression.

1. $3x+4y + 9xy-9x+5-3x-\left(-2y\right)+ 4xy-5$

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| Terms | Coefficients | Constant terms | Like Terms | Simplified |
|  |  |  |  |  |

1. $8x+3x^{2}-6x+5x^{2}-5+6x-15x^{2}$

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Terms | Coefficients | Constant terms | Like Terms | Simplified |
|  |  |  |  |  |

1. $3-4ab+6a-4b$

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| --- | --- | --- | --- | --- |
| Terms | Coefficients | Constant terms | Like Terms | Simplified |
|  |  |  |  |  |

1. $3x-4y+5-3xy-y+2-x+7xy-3+x^{2}$

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| Terms | Coefficients | Constant terms | Like Terms | Simplified |
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1. $4x-6+x-4y$

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| Terms | Coefficients | Constant terms | Like Terms | Simplified |
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