**EXAMPLE #1**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**EXAMPLE #2**



**EXAMPLE #3**

|  |  |  |  |
| --- | --- | --- | --- |
| **Problem** | **Length, Area, or Volume?** | **Formula** | **Units of answer** |
| **1.** Mark is going to paint a large rectangular wall in a museum that measures 20 feet by 9 feet. How many square feet will Mark be painting? |  |  |  |
| **2.** Alice wants to build a fence around her circular garden. If the diameter of the garden is 6 meters, how long does the fence need to be? |  |  |  |
| **3.** The cylindrical mixing barrel on a cement truck measures 4 yards long and has a radius of 0.8 yards. How much cement can the truck hold in its mixing barrel? |  |  |  |
| **4.** A rectangular fish tank measures 24 inches by 10 inches by 10 inches. How much water can the tank hold? |  |  |  |

**EXAMPLE #4**

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |

**EXAMPLE #5**

Graph:  Function?



**EXAMPLE #6**

**1.** 

**2.** 

**EXAMPLE #7**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Expression**  **(and factor out the GCF)** | **GCF only** | **GCF and form** | **GCF and form** |
| **1.** |  |  | **X** |  |
| **2.** |  |  |  |  |
| **3.** |  |  |  |  |
| **4.** |  |  |  |  |

**EXAMPLE #8**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 64 | -4 |  | 112 |  | 100 |  | | 5 | | 1 |
|  | 11 | 8 |  | 3 | 2 | -4 | -1 |  |  |
| 9 | -8 |  | -9 | -10 | 1 | -99 | 0 | 4 | -3 |

**EXAMPLE #9**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Solve** | **Inverse Function?** | **First Step** | **Solve for** |
| **a.** |  |  |  |  |
| **b.** |  |  |  |  |

**EXAMPLE #10**

|  |  |
| --- | --- |
| **1.** | **Solve by Substitution** |
| **System of Equations:** |
| **Solve by Graphing: Blank%20Axes** |
| **Solve by Elimination** |

**EXAMPLE #11**

**Example 4:** Let’s go through this process with 

First we line up the like terms, still using the grouping symbols for the subtraction:

 becomes 

**EXAMPLE #12**

|  |  |  |
| --- | --- | --- |
|  | **1.** Solve this system of equations. |  |
| **1.** This system can be represented by this coefficient matrix. |
|  | **2.** Add equation #1 to equation #3. |  |
| **2.** Add row 1 to row 3 (replacing row 3). |

**EXAMPLE #13**

|  |  |  |
| --- | --- | --- |
| **1.** |  | **2.** |
| **Type of Equation?** Quadratic |  | **Type of Equation?** |
| **Strategies and Key Steps**  Get =0 on one side of the equation, then factor to solve. |  | **Strategies and Key Steps** |
| **Solve it!** |  | **Solve it!** |

**EXAMPLE #14**

|  |  |
| --- | --- |
| Game 1 | **Equation:** |
| **Description:** |
| Game 2 | **Equation:** The circle passes through (2,1). |