**Function Exploration**

For each function, complete the *x/y* table. Then graph the points, connect them, and extend the graph in a way that continues the trend or pattern.

1. *y* = 3*x* + 1

|  |  |
| --- | --- |
| ***x*** | ***y*** |
| −1 |  |
| 0 |  |
| 1 |  |
| 2 |  |



1. *y* = *x*2 – 3

|  |  |
| --- | --- |
| ***x*** | ***y*** |
| −1 |  |
| 0 |  |
| 1 |  |
| 2 |  |



1. *y* = $\frac{4}{x}$ + 2

|  |  |
| --- | --- |
| ***x*** | ***y*** |
| 1 |  |
| 2 |  |
| 4 |  |
| 8 |  |



**Function Exploration - KEY**

For each function, complete the *x/y* table. Then graph the points, connect them, and extend the graph in a way that continues the trend or pattern.

1. *y* = 3*x* + 1

|  |  |
| --- | --- |
| ***x*** | ***y*** |
| −1 | **−2** |
| 0 | **1** |
| 1 | **4** |
| 2 | **7** |



1. *y* = *x*2 – 3

|  |  |
| --- | --- |
| ***x*** | ***y*** |
| −1 | −**2** |
| 0 | −**3** |
| 1 | −**2** |
| 2 | **1** |



1. *y* = $\frac{2}{x}$ + 1

|  |  |
| --- | --- |
| ***x*** | ***y*** |
| 1 | **3** |
| 2 | **2** |
| 4 | **1**$\frac{1}{2}$ |
| 8 | **1**$\frac{1}{4}$ |

