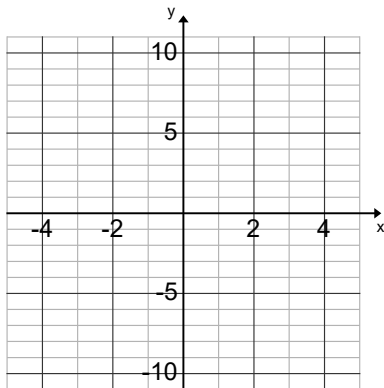


Quadratic Functions: Given the following tables of values for each quadratic function sketch the function and state the domain and range.

Name: _____

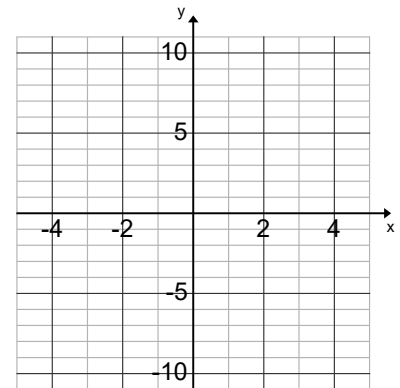
a) $y = x^2 - 2x$ D: _____ R: _____

| x | y |
|----|---|
| -2 | 8 |
| -1 | 3 |
| 0 | 0 |
| 2 | 0 |
| 3 | 3 |
| 4 | 8 |



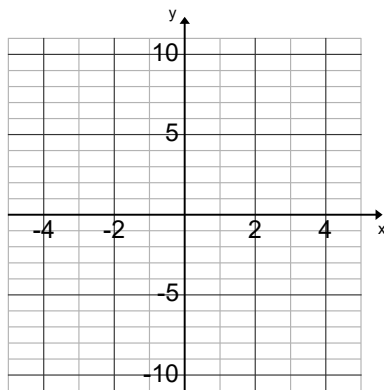
b) $y = x^2 + 2x - 3$ D: _____ R: _____

| x | y |
|----|----|
| -4 | 5 |
| -3 | 0 |
| -2 | -3 |
| 0 | -3 |
| 1 | 0 |
| 2 | 5 |



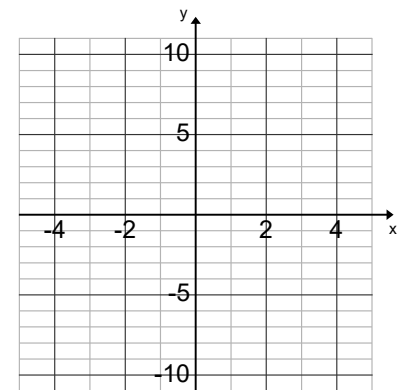
c) $y = x^2 - x - 6$ D: _____ R: _____

| x | y |
|----|----|
| -2 | 0 |
| -1 | -4 |
| 0 | -6 |
| 1 | -6 |
| 2 | -4 |
| 3 | 0 |



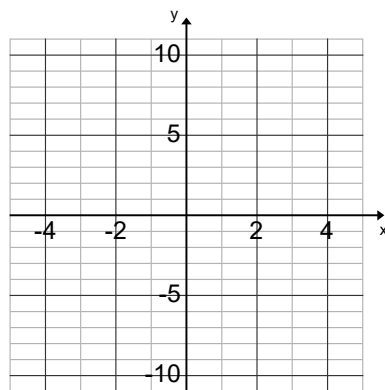
d) $y = -x^2 - x + 2$ D: _____ R: _____

| x | y |
|----|----|
| -3 | -4 |
| -2 | 0 |
| -1 | 2 |
| 0 | 2 |
| 1 | 0 |
| 2 | -4 |



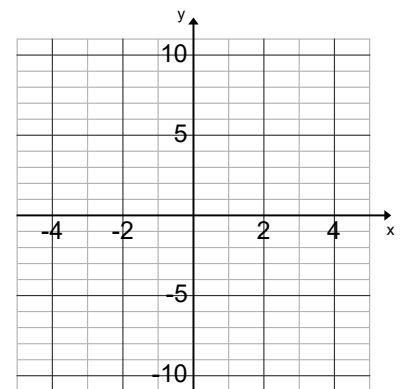
e) $y = 2x^2 - x - 8$ D: _____ R: _____

| x | y |
|----|----|
| -2 | 2 |
| -1 | -5 |
| 0 | -8 |
| 1 | -7 |
| 2 | -2 |
| 3 | 7 |



f) $y = 3x^2 + x - 10$ D: _____ R: _____

| x | y |
|----|-----|
| -2 | 1 |
| -1 | -8 |
| 0 | -10 |
| 1 | -6 |
| 2 | 4 |



- a) $x \in R, y \geq -1,$ b) $x \in R, y \geq -4,$ c) $x \in R, y \geq -6.25,$ d) $x \in R, y \leq 2.25,$ e) $x \in R, y \geq 8.125,$
 f) $x \in R, y \leq \frac{-31}{3}$