Conic Section: Parabola

| | $y = a(x-h)^2 + k$ | | |
|-------------|--------------------|---|--|
| Vertex is (| , |) | |

| If a > 0, it opens | |
|--------------------|--|

| If a < 0, it op | ens | |
|-----------------|-----|--|
|-----------------|-----|--|

| Focus | is | (| , |
|-------|----|---|---|
| | | | |

Directrix is ______.

$$x = a(y-k)^2 + h$$

)

Vertex is (,)

| lf a > 0, | it opens | | |
|-----------|----------|--|--|
|-----------|----------|--|--|

| lf | а | < | 0, | it | opens | |
|----|---|---|----|----|-------|--|
|----|---|---|----|----|-------|--|

Focus is (,)

Directrix is _____.

Conic Section: Parabola

| $y = a(x-h)^2 + k$ | | | | |
|--|---|---|--|--|
| Vertex is (, |) | | | |
| If a > 0, it opens If a < 0, it opens | | | | |
| Focus is (| , |) | | |
| Directrix is | | · | | |

| X = | $= a(y-k)^2 + h$ | |
|--|------------------|--|
| Vertex is (, |) | |
| If a > 0, it opens If a < 0, it opens | | |
| Focus is (| ,) | |
| Directrix is | · | |