

Graph the following

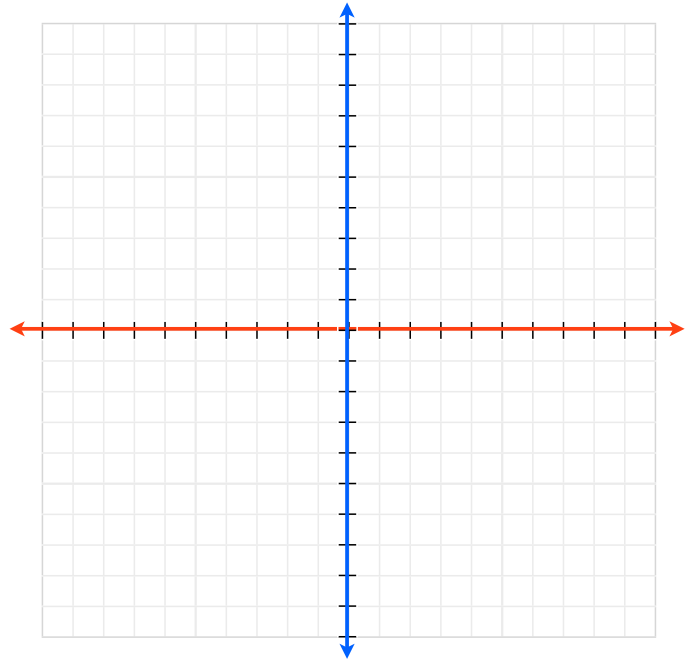
$$(x + 2)^2 + (y - 2)^2 = 48$$

move **up** $\Rightarrow$ add to y

move **down** $\Rightarrow$ subtract from y

move **right** $\Rightarrow$ add to x

move **left** $\Rightarrow$ subtract from x



Graph the following

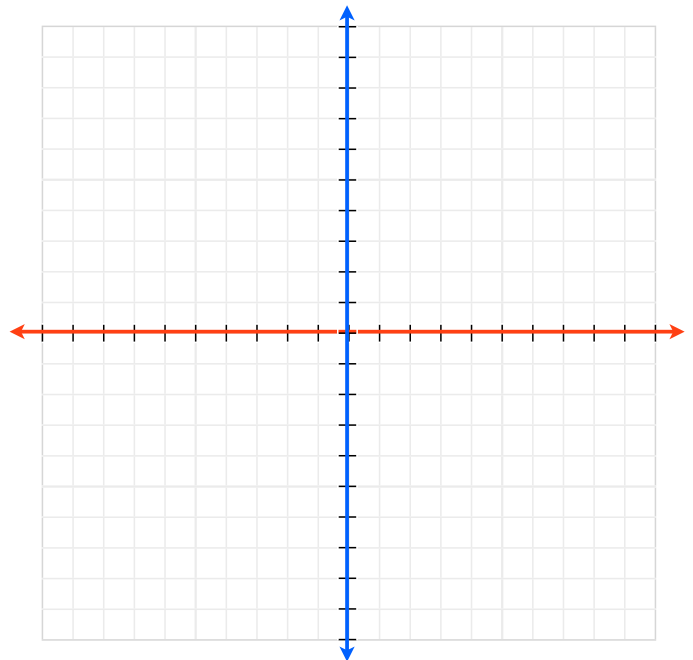
$$(x - 2)^2 + (y + 3)^2 = 24$$

move **up** $\Rightarrow$ add to y

move **down** $\Rightarrow$ subtract from y

move **right** $\Rightarrow$ add to x

move **left** $\Rightarrow$ subtract from x



Graph the following

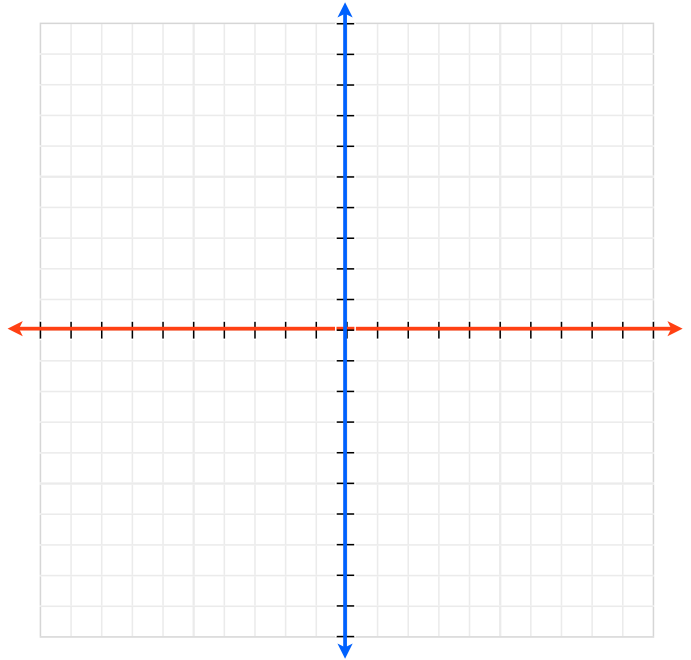
$$\frac{(x - 1)^2}{16} + \frac{(y + 3)^2}{9} = 1$$

move **up** $\Rightarrow$ add to y

move **down** $\Rightarrow$ subtract from y

move **right** $\Rightarrow$ add to x

move **left** $\Rightarrow$ subtract from x



Graph the following

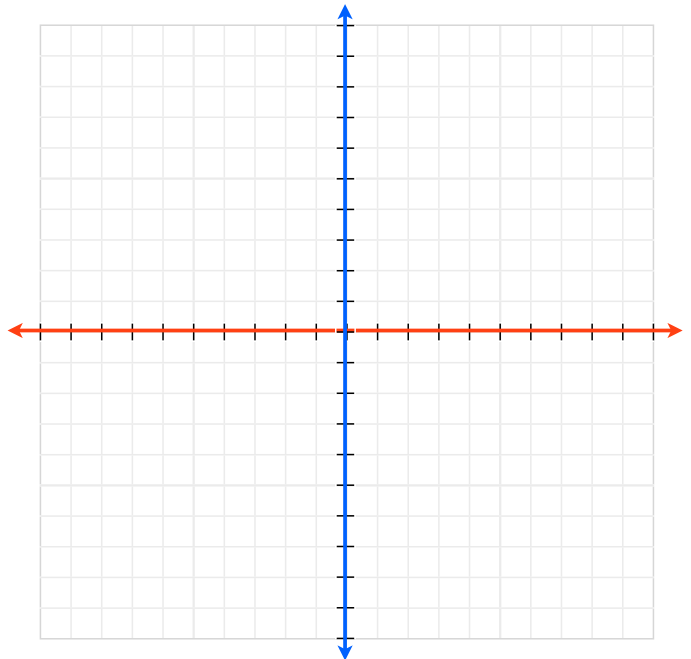
$$\frac{(y - 1)^2}{24} - \frac{(x - 2)^2}{12} = 1$$

move **up** $\Rightarrow$ add to y

move **down** $\Rightarrow$ subtract from y

move **right** $\Rightarrow$ add to x

move **left** $\Rightarrow$ subtract from x



Adding or subtracting radicals from an (x,y) point...

move up $\Rightarrow$ add to y

move down $\Rightarrow$ subtract from y

move right $\Rightarrow$ add to x

move left $\Rightarrow$ subtract from x