The diagram illustrates a graph of a function $f(x)$ on the Cartesian plane. The $x$-axis represents the domain of $x$, ranging from $-6$ to $6$, and the $f(x)$-axis represents the range, ranging from $-30$ to $30$. The graph shows a parabolic curve with its vertex at the origin $(0,0)$. A linear function is also plotted, which intersects the parabola at the origin, demonstrating the relationship between the two functions at the point of intersection.