

$$y=f(x)$$

$$y=kx+m$$


A hand-drawn graph on a Cartesian coordinate system. A parabola, labeled $y=f(x)$, opens upwards. A straight line, labeled $y=kx+m$, has a positive slope. The parabola and the line intersect at two points, which are circled. Red diagonal lines are drawn in the regions where the parabola is above or below the line, indicating the inequality $f(x) > kx+m$ or $f(x) < kx+m$.