Given $f(x)=a b^{x}$ and the tangent line at $\mathrm{x}=0$ is $g(x)=x+5$. This is a reversibility type question. Given the tangent line find the function. Same concept but work is just reversed. Tangent line means $f(a)=g(a)$ and $f^{\prime}(a)=g^{\prime}(a)$
Fill in what you can, and solve for the missing pieces.
Finding the quadratic of best fit means the quadratic that has the same concavity, slope and function value of the given function at the point given. So just set up the 3 equations given and see what you can solve. General form of a quadratic is $g(x)=A x^{2}+B X+C$.

