4. (6 points) Find the exact equation of the linear approximation to the curve $f(x)=10 e^{0.4 x}$ having slope equal to 2 .
5. (10 points) Find the exact coordinates of the point $(x, y)$ where the tangent line to the graph of

$$
y^{3}-x y=-6
$$

is vertical. You should start by differentiating the equation above implicitly with respect to $x$. Show step-by-step work.

