2. [16 points]

Graphed below is a function $t(x)$. Define $p(x)=x^{2} t(x), q(x)=t(\sin (x)), r(x)=\frac{t(x)}{3 x+1}$, and $s(x)=t(t(x))$. For this problem, do not assume $t(x)$ is quadratic.


Carefully estimate the following quantities.
a. [4 points] $p^{\prime}(-1)$
b. [4 points] $q^{\prime}(0)$
c. [4 points] $r^{\prime}(3)$
d. [4 points] $s^{\prime}(0)$

