```
\begin{tikzpicture}[domain=0:4]
    \draw[very thin,color=gray] (-0.1,-1.1) grid (3.9,3.9);
    \draw[->] (-0.2,0) -- (4.2,0) node[right] {$x$};
    \draw[->] (0,-1.2) -- (0,4.2) node[above] {$f(x)$};
    \draw[color=red] plot[id=x] function{x} node[right] {$f(x) =x$};
    \draw[color=blue] plot[id=sin] function{sin(x)} node[right] {$f(x) = \sin x$};
    \draw[color=orange] plot[id=exp] function{0.05*exp(x)} node[right] {$f(x) =
    \frac{1}{20} \mathrm e^x$};
\end{tikzpicture}
```