Please differentiate the following functions: $a(x)=x^{4}-5 x^{3}+81, b(x)=2 \sqrt{x}-\sqrt[3]{x^{2}}+\frac{3}{x^{3}}$, $c(x)=\frac{x+1}{3 x-1}, d(x)=\sqrt{x} \cos x, e(x)=\frac{\cos x}{2 \sin x}-\frac{0.5}{\tan x}, f(x)=\sqrt{x^{2}+6}, g(x)=\sqrt{x^{2}+\sqrt{x}}$, $h(x)=\left(x^{3}-1\right)^{8}\left(t^{4}+1\right)^{5}\left(4 x^{2}+5\right)^{10}, i(x)=\sin ^{2}\left(x^{3}\right), j(x)=\sqrt{\frac{x^{2}+1}{x^{2}-5}}$. Circle each answer (no need to simplify), no partial credit will be given, no calculators are allowed, $n$ wrong answers will give $\max \left\{5-\frac{n^{2}}{2}, 0\right\}$ points.

