## Intellectual Need-Provoking Task for Antiderivatives

1. Find a function with the following derivative: $f(x)=2 x^{3}-\frac{4}{x^{2}}+\pi$
2. Find a function with the following derivative: $g(x)=\sin (2 x)$
3. Find a function with the following derivative: $h(x)=\frac{1}{x}$
