1. Find the average value of $f(x) = 3x^2 - 7$ on $[-2, 1]$.

2. Find the average value of $g(x) = x\sqrt{x^2 - 3}$ on [5,6].

3. Find the average value of $h(x) = x\sqrt[3]{x + 5}$ on $[0, 1]$.

4. Find the value c so that $f(c) = f_{avg}$ for $f(x) = x^2 + 1$ on $[0, 3]$.

5. Find **all** values of c so that $f(c) = f_{avg}$ for $f(x) = -(x-1)(x-3)$ on $[1, 3]$.