## Find the average value of each function over the specified interval.

 Graph the function to verify that your answer is plausible.1. $f(x)=\cos \left(\frac{x}{2}\right)+\frac{x}{3} \quad$ on $[0,10]$
2. $f(x)=x e^{x^{2}}-x^{3}+x^{2}-x \quad$ on $[-1,1]$
3. $f(x)=\sec (x)^{2} \tan (x) \quad$ on $[2,4]$
4. $f(x)=\sin \left(x^{2}\right) \quad$ on $[0,3]$
