

1.	Graph the region bounded by $y^2 = 4x$ and $y = 2x - 4$. Find the area
2.	Graph the region bounded by $y = 2 - x^2$ and $y = x - 4$. Find the area.
3.	Graph and find the area under the curve of $y = 2x + 1$ on $[0, 2]$.
4.	Find the average value of $f(x) = 5x^4 + 3x^2$ on the interval $-1 \leq x \leq 2$.
5.	Find the average value of $f(x) = \sin x$ on the interval $[0, \pi]$.
6.	Find the average value of $f(x) = \frac{1}{x}$ on the interval $[e, 2e]$.
7.	Find the average value of $y = 3x^2 + 2x$ on the interval $[-1, 2]$
8.	Find the average value of $y = \frac{1}{1 + x^2}$ on the interval $[0, 1]$.

Answers

1. 9	2. $\frac{125}{6}$	3. 6	4. 14
5. $\frac{2}{\pi}$	6. $\frac{\ln 2}{e}$	7. 4	8. $\frac{\pi}{4}$