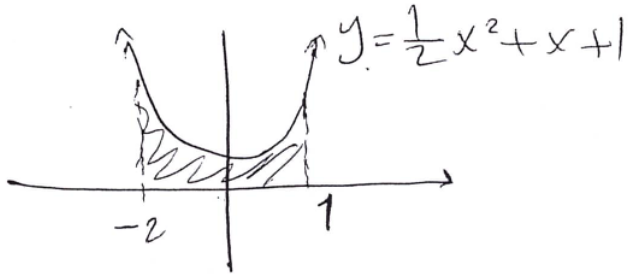
38 find the area:-



$$A=\int_{-2}^{1}\left(\frac{1}{2}x^2+x+1\right)dx$$

$$=\frac{1}{2}\cdot\frac{x^3}{3}+\frac{x^2}{2}+x\Big|_{-2}^{1}$$

$$=\frac{x^3}{6}+\frac{x^2}{2}+x\Big|_{-2}^{1}$$

$$=\left(\frac{1}{6}+\frac{1}{2}+1\right)-\left(\frac{-8}{6}+\frac{4}{2}+-2\right)$$

$$=\frac{10}{6}-\frac{-8}{6}$$

$$=\frac{18}{6}=\boxed{3}$$

42 Find the area between $y=x^2+3x+2$ and the x-axis from $x=-1$ to $x=3$.

$\rightarrow$ $x^2+3x+2=0$

$(x+2)(x+1)=0$ $\therefore x=\cancel{+}2,-1$

لا نحتاجها لأنها خارج الفترة