i) $\int_{-1}^{1} c\,\delta(x-c)\,dx$ (Hint: watch out for limits of integration. Remember, c=2 throughout)

ii) $\int_{-10}^{10} 2c\,x\,\delta(x-c)\,dx$

iii) $\int_{-\infty}^{\infty} |x-c|^2\,\delta(2x)\,dx$ (Hint: see Griffiths Example 1.15)

iv) $\iiint_V |\vec{\mathbf{r}}-\vec{\mathbf{r}}_0|^2\,\delta^3(\vec{\mathbf{r}})\,d^3\vec{\mathbf{r}}$

v) $\iiint_V |\vec{\mathbf{r}}-\vec{\mathbf{r}}_0|^2\,\delta^3(2\vec{\mathbf{r}})\,d^3\vec{\mathbf{r}}$ (Hint: $\delta^3(\vec{\mathbf{r}}) = \delta(x)\delta(y)\delta(z)$)