

No. _____
Date _____
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4. $\int (u-1)(u^2-2u+1)^{10} du$

misal $v = u^2 - 2u + 1 \rightarrow dv = (2u-2) du$

~~$\Rightarrow \frac{dv}{du} = (2u-2)$~~ $= \frac{1}{2} \int v^{10} dv$

$\int v^{10} dv \quad \Rightarrow \quad \frac{1}{2} \int v^{10} dv$

$= \frac{1}{11} v^{11}$
 $= \frac{1}{2} \frac{1}{11} v^{11} + C$

$= \frac{1}{22} (u^2 - 2u + 1) + C$

8. $\int \sin(2x-1) \cdot 2 dx$

~~8. $\int 2 \sin(2x-1) dx$~~

misal $u = 2x-1 \Rightarrow \int \sin(u) du$

$= -\cos(2x-1) + C$