

$$\text{OR} = \vec{\nabla} \cdot (3r\vec{r}) = 3 \nabla \cdot (r\vec{r})$$

$$\text{So by (b)} \Rightarrow = 3(4r) = 12r \checkmark$$

```
// new_velocity = A_d_inv*temp_v
for(int i=0; i<dim_A; i++){
    new_velocity[i] += old_velocity[i] - parameterA*old_velocity[i]
}
for(int i=0; i<dim_A; i++){
    for(int j=0; j<dim_A; j++){
        new_velocity[i] += parameterA*d_inv[i*dim_A+j]*temp_v[j]
    }
}
```