Name: $\qquad$

1. [4 points] Find the numerical value of the coefficient of $x^{6} y^{3}$ in $(x+y)^{9}$.
2. [ $\mathbf{3}$ points] Find the coefficient of $x^{4}$ in $(3 x-1)^{11}$. You do not need to simplify your answer.
3. [3 points] Find the coefficient of $x^{8} y^{3}$ in $(4 x-2 y+3)^{20}$. You do not need to simplify your answer.
