

Please show **all** your work! Answers without supporting work will not be given credit.
Write answers in spaces provided.

Name: _____

(FOR BOTH PROBLEMS DON'T SIMPLIFY YOUR FINAL ANSWER!!!)

1. Let $y = (3x - 1)^{100}$. Find y' .
2. Find the derivative $y = \sqrt{r^2 - 6x^2}$, where r is a constant.