

Checkup3D (Be sure to show all of your work)

Name: \_\_\_\_\_

- Combine rules to find derivatives
- Use logarithmic differentiation
- Implicitly find derivatives

1. Find  $\frac{d}{dx} \frac{3x}{\sqrt{2x+1}}$

2. Find  $\frac{d}{dx} 2^{5x+6}$

3. Find  $\frac{dy}{dx}$  if  $x^3 + y^3 = 18xy$