Quiz

Name_____

Find the following partial derivatives.

1. $w = uv^3 + 3u^4 + \sin(3v)$

   $w_u =$

   $w_v =$

2. $f(x, y) = \dfrac{x^2 + xy}{x^2 + y^3}$

   $\dfrac{\partial f}{\partial x} =$

   $\dfrac{\partial f}{\partial y} =$

3. $h(r, \theta) = \sqrt{r^3 + \tan(\theta)}$

   $h_r =$

   $h_\theta =$

4. $H(x, y) = 5^{x+2y}(x^3 y^3 - 8)$

   $\dfrac{\partial H}{\partial x} =$

   $\dfrac{\partial H}{\partial y} =$