

King Fahd University of Petroleum & Minerals  
Department of Mathematics and Statistics  
(Semester 171) Math 101-50 Quiz # 4

Name: \_\_\_\_\_ I.D. # \_\_\_\_\_ Sr. # \_\_\_\_\_

1. Differentiate  $y = \sin^{-1} \sqrt{\sin x}$ .

2. Differentiate  $y = x^{\sin x}$ .

King Fahd University of Petroleum & Minerals  
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(Semester 171) Math 101-48 Quiz # 4

Name: \_\_\_\_\_ I.D. # \_\_\_\_\_ Sr. # \_\_\_\_\_

1. Differentiate  $y = \cos^{-1}(\sin^{-1} x)$ .
2. Differentiate  $y = (\ln x)^{\cos x}$ .