

King Fahd University of Petroleum and Minerals
Department of Math & Stat
Math 132, Sections 1, 4 (102)
Quiz 4(a)

Time: 20 minutes

Marks: _____/9

Name: _____ Section #: _____

ID #: _____ Serial #: _____

1. Evaluate $\int x\sqrt{x+1} dx$.

2. Evaluate $\int_0^{\pi/4} \sin^3 2x \cos 2x dx$.

King Fahd University of Petroleum and Minerals
Department of Math & Stat
Math 132, Sections 1, 4 (102)
Quiz 4(b)

Time: 20 minutes

Marks: _____/9

Name: _____ Section #: _____

ID #: _____ Serial #: _____

1. Evaluate $\int_0^1 \frac{3x^2 dx}{1 + 2x^3}$.

2. Evaluate $\int_{\frac{\pi^2}{9}}^{\frac{\pi^2}{4}} \frac{\cos\sqrt{x}}{\sqrt{x}} dx$.

King Fahd University of Petroleum and Minerals
Department of Math & Stat
Math 132, Sections 1, 4 (102)
Quiz 4(c)

Time: 20 minutes

Marks: _____/9

Name: _____ Section #: _____

ID #: _____ Serial #: _____

1. Evaluate $\int_1^e x^3 \ln x \, dx$.

2. For $f(x) = \sin^2(3\sqrt{x})$, find $f'(x)$.