

ID# _____

Section: _____

Quiz 3 MATH 102-T122

Serial # _____

Evaluate the integrals:

$$(1) \int_0^{\pi^2/4} \sin \sqrt{t} dt$$

$$(2) \int \tan^4 x dx$$

(Use other side of paper)

$$(3) \int \frac{(1-r^2)^{5/2}}{r^8} dr$$

(4) Only find the partial fractions:

$$\frac{x^2 + 2}{(x-1)(x+1)^3}$$

(Use other side of paper)

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Serial # _____

Evaluate the integral:

(1) $\int_0^1 2x \cos^{-1} x \, dx$

(3) $\int \frac{e^t}{(1+e^{2t})^{3/2}} dt$

(2) $\int \frac{\cos^2 x}{\sqrt{1-\sin x}} dx$

(Use other side of paper)

(4) Only find the partial fractions:

$$\frac{x^2}{(x-1)(x^2+1)}$$

(Use other side of paper)