Name: _____

Quiz 1 ♣

MATH 201

January 18, 2024

Use substitution to find the following integrals. State clearly what your substitution is. Show all steps.

1. $\displaystyle\int \frac{e^{\sqrt{x}}}{\sqrt{x}}\,dx \;=$

2. $\displaystyle\int_0^4 \frac{2x}{x^2+1}\,dx \;=$

Name: _____

Quiz 1 ♡

MATH 201

January 18, 2024

Use substitution to find the following integrals. State clearly what your substitution is. Show all steps.

1. $\displaystyle\int \left(x^6-3x^2\right)^4\left(x^5-x\right)\,dx \;=$

2. $\displaystyle\int_{\ln(\pi/4)}^{\ln(\pi/2)} e^x\cos\left(e^x\right)\,dx \;=$

Name: _____

Quiz 1 ♠

MATH 201
January 18, 2024

Use substitution to find the following integrals. State clearly what your substitution is. Show all steps.

1. $\int (3x+2)^{20}\,dx \;=$

2. $\int_0^{\pi/2} \frac{\sin(x)}{2-\cos(x)}\,dx \;=$

Name: _____

Quiz 1 ♢

MATH 201
January 18, 2024

Use substitution to find the following integrals. State clearly what your substitution is. Show all steps.

1. $\int x^3(x^4+16)^6\,dx \;=$

2. $\int_0^{\sqrt{\pi/3}} \sin(x^2)2x\,dx \;=$