

Name: \_\_\_\_\_ Quiz Score: \_\_\_\_\_ /25

### Quiz 4: Version A

*Show your reasoning. Use standard notation correctly. Simplify your answers.*

Evaluate each integral, simplifying your answer. If you use a substitution, write it out explicitly, along with the computation of the differential. Check your answer.

1.  $\int \left( \frac{1}{\sqrt[3]{y^2}} - \frac{5}{y} \right) dy$

Check:

integral: \_\_\_\_\_ /4      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2

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2.  $\int e^{0.02t} dt$

Check:

integral: \_\_\_\_\_ /4      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2

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3.  $\int \sqrt{x^2 - 6x + 2} (x - 3) dx$

Check:

integral: \_\_\_\_\_ /6      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2

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### Quiz 4: Version B

*Show your reasoning. Use standard notation correctly. Simplify your answers.*

Evaluate each integral, simplifying your answer. If you use a substitution, write it out explicitly, along with the computation of the differential. Check your answer.

1.  $\int \left( \frac{1}{\sqrt[4]{x^3}} - \frac{2}{x} \right) dx$

Check:

integral: \_\_\_\_\_ /4      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2

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2.  $\int e^{0.05y} dy$

Check:

integral: \_\_\_\_\_ /4      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2

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3.  $\int \sqrt{t^2 - 8t - 11} (t - 4) dt$

Check:

integral: \_\_\_\_\_ /6      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2

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### Quiz 4: Version C

*Show your reasoning. Use standard notation correctly. Simplify your answers.*

Evaluate each integral, simplifying your answer. If you use a substitution, write it out explicitly, along with the computation of the differential. Check your answer.

1.  $\int \left( \frac{1}{\sqrt[5]{w^4}} - \frac{10}{w} \right) dw$

Check:

integral: \_\_\_\_\_ /4      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2

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2.  $\int e^{0.03t} dt$

Check:

integral: \_\_\_\_\_ /4      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2

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3.  $\int \sqrt{x^2 + 12x - 500} (x + 6) dx$

Check:

integral: \_\_\_\_\_ /6      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2

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### Quiz 4: Version D

*Show your reasoning. Use standard notation correctly. Simplify your answers.*

Evaluate each integral, simplifying your answer. If you use a substitution, write it out explicitly, along with the computation of the differential. Check your answer.

1.  $\int \left( \frac{1}{\sqrt[3]{x^4}} - \frac{8}{x} \right) dx$

Check:

integral: \_\_\_\_\_ /4      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2

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2.  $\int e^{0.06t} dt$

Check:

integral: \_\_\_\_\_ /4      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2

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3.  $\int \sqrt{y^2 - 100y + 1} (y - 50) dy$

Check:

integral: \_\_\_\_\_ /6      check: \_\_\_\_\_ /2      notation: \_\_\_\_\_ /2