

I'm not robot!

Calculate:

$$\int \frac{2x}{\sqrt{x^2+7}} dx$$

$$\text{Set } u = x^2 + 7$$

$$du = 2x \cdot dx$$

$$= \int \frac{1}{\sqrt{u}}$$

Math Character Solving Systems of Equations Using Simple Substitution Part One

Name: _____ Class Period: _____ Date: _____

When teachers are gone, we hope you remember the new person standing in front of the room is not the enemy. They are someone's mother, father, sister, brother, daughter or son. Treat them like you would want your family treated, or maybe even better.

Find the solution to each system. Put the letter for each system above the correct answer to fill in the code. The first problem is partially completed for you.

1. E $\begin{cases} y = 4x + 6 \\ y = -2x + 12 \end{cases}$ 6. H $\begin{cases} y = x + 2 \\ y = 4x + 5 \end{cases}$

$$\begin{array}{r} 4x + 6 = -2x + 12 \\ \underline{-4x} \quad \underline{-2x} \\ 6x + 6 = 12 \\ \underline{-6} \quad \underline{-6} \\ 6x = 6 \end{array}$$

7. B $\begin{cases} y = 2x + 9 \\ y = x - 6 \end{cases}$

Continue to solve for x and y:

2. I $\begin{cases} y = 3x + 5 \\ y = 2x + 10 \end{cases}$ 8. N $\begin{cases} y = -\frac{3}{4}x + 4 \\ y = \frac{1}{4}x - 8 \end{cases}$

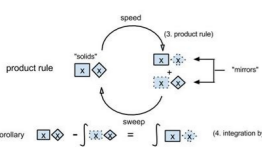
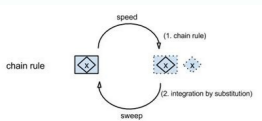
3. S $\begin{cases} y = 2x + 9 \\ y = -x + 18 \end{cases}$ 9. C $\begin{cases} 5x - 15 = y \\ y = x - 7 \end{cases}$

4. U $\begin{cases} y = 4x + 20 \\ y = -x - 10 \end{cases}$ Challenge Question:

5. T $\begin{cases} y = -x \\ y = 2x - 15 \end{cases}$ 10. O $\begin{cases} 2x - y = 4 \\ y = x + 6 \end{cases}$

(-15,-21) (1,10) (12,-5) (5,20) (2,-5) (1,10) (5,-5) (10,10) (5,-5) (-1,-1) (1,10) (3,15) (-6,-4) (-15,-21)

For help with this worksheet go to Mathops.com Section 10 Lesson 2. Copyright © 2010 by Twisting Mathematics, LLC. LS 2



Solutions to Worksheet for Section 5.5 Integration by Substitution

V63.0121, Calculus I
Summer 2010

1. $\int (3x-5)^{17} dx, u = 3x-5$

Solution. As suggested, we let $u = 3x - 5$. Then $du = 3 dx$ so $dx = \frac{1}{3} du$. Thus

$$\int (3x-5)^{17} dx = \frac{1}{3} \int u^{17} du = \frac{1}{3} \cdot \frac{1}{18} u^{18} + C = \frac{1}{54} (3x-5)^{18} + C$$

□

2. $\int_0^4 x\sqrt{x^2+9} dx, u = x^2+9$

Solution. We have $du = 2x dx$, which takes care of the x and dx that appear in the integrand. The limits are changed to $u(0) = 9$ and $u(4) = 25$. Thus

$$\begin{aligned} \int_0^4 x\sqrt{x^2+9} dx &= \frac{1}{2} \int_9^{25} \sqrt{u} du = \frac{1}{2} \cdot \frac{2}{3} u^{3/2} \Big|_9^{25} \\ &= \frac{1}{3} \cdot (125 - 27) = \frac{98}{3} \end{aligned}$$

□

3. $\int \frac{e^{\sqrt{x}}}{\sqrt{x}} dx, u = \sqrt{x}$

Solution. We have $du = \frac{1}{2\sqrt{x}} dx$, which means that

$$\int \frac{e^{\sqrt{x}}}{\sqrt{x}} dx = 2 \int e^u du = 2e^u + C$$

□

integration by parts is the integral of $\ln(x)$. When we are faced with a composite function, such as a trig function of a polynomial, u-substitution is very useful (u-substitution can be considered a reversal of ... 04/08/2022 - Get started with Microsoft developer tools and technologies. Explore our samples and discover the things you can build. Finally, let's carry out shell integration. (c) Notice in disk integration the area was rotated around the same axis that the area was integrated on. In other words, the axis the area touched was the axis of rotation. In shell integration, it is the opposite. Notice that the area is touching the x axis and the solid is rotating around the y axis. Calculator 4th root, maple 3d plotting, online calculator + integration by parts, cliffs algebra download, aptitude test papers download. Calculate Linear Feet. solving an equation with 3 unknowns excel, applied math worksheets, printable multiplication worksheets for third graders, solving nonlinear first order differential equations. find x y ... 28/01/2018 · Solution; For problems 3 - 7 using only Properties 1 - 9 from the Limit Properties section, one-sided limit properties (if needed) and the definition of continuity determine if the given function is continuous or discontinuous at the indicated points.
$$f\left(x\right) = \frac{\left(4x + 5\right)\left(9 - 3x\right)}{\left(x - 1\right)}$$
Yr2 Pure - Integration: Integration By Substitution: Video: Yr2 Pure - Integration: Integration By Parts: Video: Yr2 Pure - Integration: Differential Equations: Video: Yr2 Pure - Integration: Area Between a Curve and the y-Axis: ... Each worksheet comes with FULL WORKED SOLUTIONS, showing you exactly HOW to get to the answers. ... How to Use Integration By Parts . View Quiz. Left, Right and Middle Riemann Sums How to Evaluate Simple Equations with Substitution: Quiz & Worksheet for Kids . View Quiz. Equivalent ...

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