



I'm not robot



Continue

## Integration by substitution worksheet answers

Slideshare uses cookies to improve functionality and performance and to provide you with relevant advertising. If you continue to browse the website, you consent to the use of cookies on this website. See our User Agreement and Privacy Policy. Slideshare uses cookies to improve functionality and performance and to provide you with relevant advertising. If you continue to browse the website, you consent to the use of cookies on this website. See our Privacy Policy and User Agreement for details. Slideshare uses cookies to improve functionality and performance and to provide you with relevant advertising. If you continue to browse the website, you consent to the use of cookies on this website. See our Privacy Policy and User Agreement for details. Integration U Substitution With Answers - Displays the top 8 spreadsheets found for this concept. Some spreadsheets for this concept are Integrated Over time on Replacement, Integrated by U Alternative, Integrated by Alternative, Integrated by Alternative, November 18 2014 Working 19 Integrated by, Math 34b Integrated Work Solution, Math 229 Work, 06.Found Spreadsheet You're Looking for? To download/print, click the pop-up icon or print icon on the worksheet to print or download. The worksheet opens in a new window. You can & download or print using your browser's document reader options. We promote this section with an example. Let  $f(x) = (x^2+3x-5)^{10}$ . We can calculate  $\int f(x) dx$  by string rule. These are:  $\int f(x) = 10(x^2+3x-5)^9 \cdot (2x+3) = (20x+30)(x^2+3x-5)^9$ . Now consider this:  $\int (20x+30)(x^2+3x-5)^9 dx$ ? We have the answer before us;  $\int (20x+30)(x^2+3x-5)^9 dx = (x^2+3x-5)^{10} + C$ . How are we going to evaluate this indefinitely analysis without starting with  $\int f(x) dx$  as we did? This section explores integration by alternative. It allows us to unmede String Rules. The alternative allows us to evaluate the above analysis without knowing the original function first. The basic principle is to rewwwww a complex analysis of the form  $\int f(x) dx$  as a non--to-complex analysis  $\int h(u) du$ . We will officially establish later how this is done. First, let's reconsider our indefinitely introduced analysis,  $\int (20x+30)(x^2+3x-5)^9 dx$ . Believed to be the most complex part of the integrand is  $(x^2+3x-5)^9$ . We want to make this simpler; we do so through an alternative. Please  $(u=x^2+3x-5)$ . so  $(x^2+3x-5)^9 = u^9$ . We've set  $u$  as a function of  $x$ , so now consider the distinction of  $du = (2x+3)dx$ . Remember that  $\int \frac{1}{(2x+3)}$  and  $\int dx$  are  $\int dx$  is not just sitting there. Back original analysis and implementation of an alternative number through angh of numbers: 
$$\int (20x+30)(x^2+3x-5)^9 dx \quad \& \quad = \int 10(2x+3)(x^2+3x-5)^9 dx$$

