

Completing the square integral

Continue

Review of Basic Integration Rules cont'd

9. $\int \cos u \, du = \sin u + C$	10. $\int \tan u \, du = -\ln \cos u + C$
11. $\int \cot u \, du = \ln \sin u + C$	12. $\int \sec u \, du = \ln \sec u + \tan u + C$
13. $\int \csc u \, du = -\ln \csc u + \cot u + C$	14. $\int \sec^2 u \, du = \tan u + C$
15. $\int \csc^2 u \, du = -\cot u + C$	16. $\int \sec u \tan u \, du = \sec u + C$
17. $\int \csc u \cot u \, du = -\csc u + C$	18. $\int \frac{du}{\sqrt{a^2 - u^2}} = \arcsin \frac{u}{a} + C$
19. $\int \frac{du}{a^2 + u^2} = \frac{1}{a} \arctan \frac{u}{a} + C$	20. $\int \frac{du}{u\sqrt{u^2 - a^2}} = \frac{1}{a} \operatorname{arcsec} \frac{ u }{a} + C$

15

$$\int \frac{x}{x^2 + 4x + 6} dx$$

$$\begin{aligned} \sqrt{4} \quad x^2 - 7x + 12 &= 0 \\ x^2 - 7x + \left(\frac{7}{2}\right)^2 &= -12 + \left(\frac{7}{2}\right)^2 \\ (x - \frac{7}{2})^2 &= \frac{1}{4} \\ \sqrt{(x - \frac{7}{2})^2} &= \pm \frac{1}{2} \\ x - \frac{7}{2} &= \pm \frac{1}{2} \end{aligned}$$

$$\int (-4x^3 - 8x^2 - 4) dx$$

$$= -4 \int x^3 dx - 8 \int x^2 dx - 4 \int 1 dx$$

$$= -4 \frac{x^4}{4} - 8 \frac{x^3}{3} - 4 \frac{x^1}{1} + C$$

$$= -x^4 - \frac{8}{3}x^3 - 4x + C$$

$$\begin{aligned} \int \frac{1}{5x^2 - 30x + 65} dx &= \frac{1}{20} \int \frac{1}{\frac{(x-3)^2}{2^2} + 1} dx \\ \frac{1}{5} \int \frac{1}{x^2 - 6x + 13} dx &= \frac{1}{20} \int \frac{1}{\left(\frac{x-3}{2}\right)^2 + 1} dx \\ \frac{1}{5} \int \frac{1}{\underbrace{x^2 - 6x + 9}_{(x-3)^2} + \underbrace{4}_{4}} dx &= \frac{1}{20} \int \frac{1}{\left(\frac{x-3}{2}\right)^2 + 1} dx \\ \frac{1}{5} \int \frac{1}{(x-3)^2 + 2^2} dx & \end{aligned}$$

Evaluate the integral by completing the square. Completing the square integrals practice. Find or evaluate the integral by completing the square. Completing the square integral trigonometric substitution. Completing the square integral calculator. Solving integrals by completing the square. Completing the square exponential integral. Completing the square gaussian integral.

this little bag is knit on size US15 circular needles (16 inch) and is super cute! i used patons worsted weight red wool with red colorlash novelty yarn. Everything from carpeting a room to installing cabinets is more difficult -- and sometimes less effective -- if the space you're working in isn't square. Whether you want to renovate, re-tile, or build a deck, learning how to square your space will make the job easier and the outcome more professional. What you do to define a square work area: Decide how large an area you want to work on. Place the measuring tape at the point where the two intersecting lines meet. Pull the tape measure out the desired length. Mark the place on the floor with a chalk mark. Once again, place the measuring tape at the point where the two intersecting lines meet. Pull the tape measure out the desired width. Mark the place on the floor with a chalk mark [source: Carter]. Calculate your hypotenuse with the help of an online calculator, by inputting your desired length and width. Record the result. Measure a straight line between the two chalk marks. This is called the hypotenuse [source: Miller] or diagonal. If you measured accurately and your building is in fact, square, the hypotenuse/diagonal will match the result arrived at with the online calculator. Here's how to check if an existing structure is square: Put the measuring tape at the corner where the two walls meet, and measure three feet (91.44 centimeters) along the length of the area. Mark the place on the floor with a chalk mark. Put the measuring tape at the corner where the two walls meet, and measure four feet (121.92 centimeters) along the width of the area. Mark the place on the floor with a chalk mark. Measure a straight line (i.e. the hypotenuse) between the two chalk marks. If the hypotenuse is five feet (152.4 centimeters), the structure is square. [Video Insert Place Holder] Most homeowners and renters rarely use a square. However, woodworkers, carpenters, and builders use them frequently. Selecting the right one for the job is easy. The main purpose of a square is to ensure that components are perpendicular, or at right angles to each other. In addition, most squares serve as measurement rulers marked in inches, fractional inches, and sometimes in centimeters and millimeters. Large framing squares, also called carpenter squares, are used in building cabinets and homes. Speed squares, sometimes referred to as try squares, are smaller and include additional angles for measurement. Combination squares have a ruler blade with an adjustable sliding stock to measure 90-degree and 45-degree angles. Combination squares include a built-in bubble level that is useful for leveling small components such as picture frames. A combination square is easy to use. Lay the stock against an object edge, then use the nut to loosen and move the ruler as needed. Most combination squares also have a removable pointed pin called a scribe that can be used to mark measurements on the object being squared. Framing and speed squares typically come with instructions for various tasks. Maintaining a square is relatively easy. Most important, do not store it where it can become damaged or bent, as accurate measurement is its primary task. Steel squares should be kept clean and dry so they don't rust. Most framing and speed squares now are made of aluminum and, with care, will be useful for decades. Hand Tools Image Gallery Other handy measurement devices include the tape measure and level. Home Repair Tools: Whether you prefer to use the Yellow Pages for anything that needs fixing around the house or consider yourself a regular do-it-yourselfer, there are a handful of tools that everyone should have in their tool box. Learn all about them in this article. Measuring and Marking Tools: Find out which tools come in handy when calculating sizes and marking off placement in certain home improvement jobs on this page. Tape Measure: Even people who don't consider themselves "handy" should have a tape measure in their home for measuring large spaces or household items. Find out about the many uses of the tape measure on this page. A perfect square is a number you get by multiplying another number by itself. HowStuffWorks You know what a square is: It's a shape with four equal sides. Seems hard to improve upon, right? What, then, is a perfect square? In order to explain that, we'll have to get a little math-y. "Square" is one of those words that can refer to a shape, but it can also mean multiplying a number by itself. It's a little bit like an actual square because if you drew a square on graph paper, each side would take up the same number of units: A square that takes up five horizontal units would also take up five vertical units. If you counted up all the units of graph paper taken up by that particular square, you would find there were 25. Because $5 \times 5 = 25$. A "perfect square" refers to a type of number. Much like a prime number is a number that can't be made by simply multiplying two other whole numbers together (a prime number is a positive number greater than 1 that can only be divided by 1 or by itself), a perfect square is a number you get by multiplying another number by itself. For instance, 16 is a perfect square because you get it by multiplying 4 by 4; 144 is a perfect square because it can be achieved by multiplying 12 by itself. So, how do you know if a number is a perfect square? You can do that by finding its square root, which is the opposite of squaring a number. If the square root is a whole number, then it's a perfect square. This is a good brand name square my father bought. When I used it I discovered it was not actually square. The rivet and brass system for attaching the blade to the handle is very good. No amount of tapping would change the alignment. If you want to check a square, you could hold it up to another square, but that one could be inaccurate, too. The dark brown piece of wood in the photo is the end section of a piece of veneer plywood I have been carrying around for several decades. The white paper arrow points to the factory cut edge of the sheet. This makes a trustworthy straightedge. The white chipboard piece of shelving raises my work surface for this Instructable to the same height as the plywood straightedge. This is a piece of clean scrap paper. I taped it so it does not move. Hold the leg of the square firmly against the straightedge. With a fine point pen, mark a line along the other leg of the square for its entire length. In geometry it is true that two lines perpendicular to the same line are parallel to each other. Flip the square over and score a second line. Make it a tiny fraction of an inch away from the first line. If the square is truly square, the lines should not diverge from each other in the least. A close examination of the lines drawn reveals they are parallel. The square is not out of square. But, earlier I said this square was not square when it was new. I made it square. I have never tried this method, but it is a recommended way to make a square square. Use a small punch to make dimples that force the legs of the square more open or more closed. Making a dimple where the punch is in the photo would tend to close the legs of the square slightly. Placing the punch nearer to the inside corner would tend to open the legs of the square. This could work with a flat metal square as pictured here. It would be difficult to utilize with the square in the previous photos. My preferred method for squaring a square involves using a file. Assume the legs of this square are open too far. The angle between the two legs is

greater than 90 degrees. Make a file stroke as shown by the red line. Make another as shown by the yellow line. Make a third as shown by the green line. Make a fourth as shown by the blue line. Make yet another as shown by the azure line. Check the square for squareness often. Repeat the filing pattern until the square is truly square.

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