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Indefinite integral worksheet pdf

Mobile Note They appear to be on a device with a narrow screen width (i.e. You are probably on a mobile phone). Due to the nature of mathematics on this page, it is the best view in landscape mode. If your device is not in landscape mode, many of the equations run off the side of the device (should be able to scroll to see them), and some of the menu items are truncated due to the narrow screen width. In case of problems 1 - 21 evaluate the given integral. Here is a graphical preview for all Indefinite Integration for Calculus Worksheets. You can select different variables to customize this indefinite integration for Calculus Worksheets to your needs. The Indefinite Integration for Calculus Worksheets are created randomly and will never be repeated, so you have an endless range of quality indefinite integration for Calculus Worksheets that you can use in the classroom or at home. 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Replacement with inverse trigonometric functions worksheets This Calculus - Indefinite Integration Worksheet leads to problems that involve the integration of inverse trigonometric functions through substitution. Let \$f\$ be any function and \$F\$ - their antiderivatives. The set of all anti-derivatives of \$f\$ is called an indeterminate integral of the function, \$F\$ by the term int \$f(x) dx = F(x) + C\$. This means that if we know one antiderivative \$F\$ of the function \$f\$, then the other, which we can write in the form \$F(x) + C\$. We do not have strict rules for the calculation of antiderivatives (indefinite simon. Most of the anti-derivatives we know come from the table of derivatives that we read in the opposite direction. Table of basic integrals int dx int dx = \$x + C\$ int \$x^n dx = \frac{x^{n+1}}{n+1} + C\$. Table of integral rational functions example 1. Determine the solution of int \$(2 - 3x + x^2) dx\$. Due to the additivity and linearity properties of the integral, we have the property int \$(2 - 3x + x^2) dx = 2 \int dx - 3 \int x dx + \int x^2 dx\$. From the table of the integral, we read \$\int (2 - 3x + x^2) dx = 2x - \frac{3}{2}x^2 + C\$. Example 2. Determine the solution for the solution. \$Dx = \int (\frac{1}{x}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{x} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x}) dx = \ln|x| + C\$. Example 3. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^2}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{x} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^2}) dx = -\frac{1}{x} + C\$. Example 4. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^3}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{2x^2} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^3}) dx = -\frac{1}{2x^2} + C\$. Example 5. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^4}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{6x^3} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^4}) dx = -\frac{1}{6x^3} + C\$. Example 6. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^5}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{10x^4} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^5}) dx = -\frac{1}{10x^4} + C\$. Example 7. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^6}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{12x^5} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^6}) dx = -\frac{1}{12x^5} + C\$. Example 8. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^7}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{14x^6} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^7}) dx = -\frac{1}{14x^6} + C\$. Example 9. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^8}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{16x^7} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^8}) dx = -\frac{1}{16x^7} + C\$. Example 10. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^9}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{18x^8} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^9}) dx = -\frac{1}{18x^8} + C\$. Example 11. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{10}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{20x^9} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{10}}) dx = -\frac{1}{20x^9} + C\$. Example 12. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{11}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{22x^{10}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{11}}) dx = -\frac{1}{22x^{10}} + C\$. Example 13. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{12}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{24x^{11}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{12}}) dx = -\frac{1}{24x^{11}} + C\$. Example 14. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{13}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{26x^{12}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{13}}) dx = -\frac{1}{26x^{12}} + C\$. Example 15. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{14}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{28x^{13}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{14}}) dx = -\frac{1}{28x^{13}} + C\$. Example 16. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{15}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{30x^{14}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{15}}) dx = -\frac{1}{30x^{14}} + C\$. Example 17. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{16}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{32x^{15}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{16}}) dx = -\frac{1}{32x^{15}} + C\$. Example 18. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{17}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{34x^{16}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{17}}) dx = -\frac{1}{34x^{16}} + C\$. Example 19. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{18}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{36x^{17}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{18}}) dx = -\frac{1}{36x^{17}} + C\$. Example 20. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{19}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{38x^{18}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{19}}) dx = -\frac{1}{38x^{18}} + C\$. Example 21. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{20}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{40x^{19}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{20}}) dx = -\frac{1}{40x^{19}} + C\$. Example 22. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{21}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{42x^{20}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{21}}) dx = -\frac{1}{42x^{20}} + C\$. Example 23. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{22}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{44x^{21}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{22}}) dx = -\frac{1}{44x^{21}} + C\$. Example 24. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{23}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{46x^{22}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{23}}) dx = -\frac{1}{46x^{22}} + C\$. Example 25. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{24}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{48x^{23}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{24}}) dx = -\frac{1}{48x^{23}} + C\$. Example 26. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{25}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{50x^{24}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{25}}) dx = -\frac{1}{50x^{24}} + C\$. Example 27. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{26}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{52x^{25}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{26}}) dx = -\frac{1}{52x^{25}} + C\$. Example 28. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{27}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{54x^{26}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{27}}) dx = -\frac{1}{54x^{26}} + C\$. Example 29. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{28}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{56x^{27}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{28}}) dx = -\frac{1}{56x^{27}} + C\$. Example 30. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{29}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{58x^{28}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{29}}) dx = -\frac{1}{58x^{28}} + C\$. Example 31. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{30}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{60x^{29}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{30}}) dx = -\frac{1}{60x^{29}} + C\$. Example 32. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{31}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{62x^{30}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{31}}) dx = -\frac{1}{62x^{30}} + C\$. Example 33. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{32}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{64x^{31}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{32}}) dx = -\frac{1}{64x^{31}} + C\$. Example 34. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{33}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{66x^{32}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{33}}) dx = -\frac{1}{66x^{32}} + C\$. Example 35. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{34}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{68x^{33}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{34}}) dx = -\frac{1}{68x^{33}} + C\$. Example 36. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{35}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{70x^{34}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{35}}) dx = -\frac{1}{70x^{34}} + C\$. Example 37. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{36}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{72x^{35}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{36}}) dx = -\frac{1}{72x^{35}} + C\$. Example 38. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{37}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{74x^{36}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{37}}) dx = -\frac{1}{74x^{36}} + C\$. Example 39. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{38}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{76x^{37}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{38}}) dx = -\frac{1}{76x^{37}} + C\$. Example 40. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{39}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{78x^{38}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{39}}) dx = -\frac{1}{78x^{38}} + C\$. Example 41. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{40}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{80x^{39}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{40}}) dx = -\frac{1}{80x^{39}} + C\$. Example 42. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{41}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{82x^{40}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{41}}) dx = -\frac{1}{82x^{40}} + C\$. Example 43. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{42}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{84x^{41}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{42}}) dx = -\frac{1}{84x^{41}} + C\$. Example 44. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{43}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{86x^{42}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{43}}) dx = -\frac{1}{86x^{42}} + C\$. Example 45. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{44}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{88x^{43}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{44}}) dx = -\frac{1}{88x^{43}} + C\$. Example 46. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{45}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{90x^{44}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{45}}) dx = -\frac{1}{90x^{44}} + C\$. Example 47. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{46}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{92x^{45}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{46}}) dx = -\frac{1}{92x^{45}} + C\$. Example 48. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{47}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{94x^{46}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{47}}) dx = -\frac{1}{94x^{46}} + C\$. Example 49. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{48}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{96x^{47}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{48}}) dx = -\frac{1}{96x^{47}} + C\$. Example 50. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{49}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{98x^{48}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{49}}) dx = -\frac{1}{98x^{48}} + C\$. Example 51. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{50}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{100x^{49}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{50}}) dx = -\frac{1}{100x^{49}} + C\$. Example 52. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{51}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{102x^{50}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{51}}) dx = -\frac{1}{102x^{50}} + C\$. Example 53. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{52}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{104x^{51}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{52}}) dx = -\frac{1}{104x^{51}} + C\$. Example 54. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{53}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{106x^{52}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{53}}) dx = -\frac{1}{106x^{52}} + C\$. Example 55. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{54}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{108x^{53}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{54}}) dx = -\frac{1}{108x^{53}} + C\$. Example 56. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{55}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{110x^{54}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{55}}) dx = -\frac{1}{110x^{54}} + C\$. Example 57. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{56}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{112x^{55}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{56}}) dx = -\frac{1}{112x^{55}} + C\$. Example 58. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{57}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{114x^{56}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{57}}) dx = -\frac{1}{114x^{56}} + C\$. Example 59. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{58}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{116x^{57}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{58}}) dx = -\frac{1}{116x^{57}} + C\$. Example 60. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{59}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{118x^{58}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{59}}) dx = -\frac{1}{118x^{58}} + C\$. Example 61. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{60}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{120x^{59}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{60}}) dx = -\frac{1}{120x^{59}} + C\$. Example 62. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{61}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{122x^{60}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{61}}) dx = -\frac{1}{122x^{60}} + C\$. Example 63. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{62}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{124x^{61}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{62}}) dx = -\frac{1}{124x^{61}} + C\$. Example 64. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{63}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{126x^{62}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{63}}) dx = -\frac{1}{126x^{62}} + C\$. Example 65. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{64}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{128x^{63}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{64}}) dx = -\frac{1}{128x^{63}} + C\$. Example 66. Determine the solution for the solution. \$Dx = \int (\frac{1}{x^{65}}) (sfrac{2}{x} - sfrac{1}{x^2}) dx = -\frac{1}{130x^{64}} + C\$. From the table of indeterminate integrals we read: \$\int (\frac{1}{x^{65}}) dx = -\frac{1}{130x^{64}} + C\$. Example 67. Determine the solution for the solution. \$