66. $\displaystyle\int \sqrt{ax^2+bx+c}\,dx = \frac{2ax+b}{4a}\sqrt{ax^2+bx+c} + \frac{4ac-b^2}{8a}\int \frac{1}{\sqrt{ax^2+b+c}}\,dx$

67. $\displaystyle\int \frac{x}{\sqrt{ax^2+bx+c}}\,dx = \frac{\sqrt{ax^2+bx+c}}{a} - \frac{b}{2a}\int \frac{1}{\sqrt{ax^2+bx+c}}\,dx$

68. $\displaystyle\int \frac{1}{x\sqrt{ax^2+bx+c}}\,dx = \begin{cases} \dfrac{-1}{\sqrt{c}}\log\left|\dfrac{2\sqrt{c}\sqrt{ax^2+bx+c}+bx+2c}{x}\right| & (c>0) \\ \dfrac{1}{\sqrt{-c}}\operatorname{arc\,sen}\dfrac{bx+2c}{|x|\sqrt{b^2-4ac}} & (c<0) \end{cases}$

69. $\displaystyle\int x^3\sqrt{x^2+a^2}\,dx = \left(\frac{1}{5}x^2 - \frac{2}{15}a^2\right)\sqrt{(a^2+x^2)^3}$

70. $\displaystyle\int \frac{\sqrt{x^2\pm a^2}}{x^4}\,dx = \frac{\mp\sqrt{(x^2\pm a^2)^3}}{3a^2x^3}$

71. $\displaystyle\int \operatorname{sen} ax \operatorname{sen} bx\,dx = \frac{\operatorname{sen}(a-b)x}{2(a-b)} - \frac{\operatorname{sen}(a+b)x}{2(a+b)} \quad (a^2 \neq b^2)$

72. $\displaystyle\int \operatorname{sen} ax \cos bx\,dx = -\frac{\cos(a-b)x}{2(a-b)} - \frac{\cos(a+b)x}{2(a+b)} \quad (a^2 \neq b^2)$

73. $\displaystyle\int \cos ax \cos bx\,dx = \frac{\operatorname{sen}(a-b)x}{2(a-b)} + \frac{\operatorname{sen}(a+b)x}{2(a+b)} \quad (a^2 \neq b^2)$

74. $\displaystyle\int \sec x \tan x\,dx = \sec x$

75. $\displaystyle\int \csc x \cot x\,dx = -\csc x$

76. $$\int \cos^m x \operatorname{sen}^n x\,dx = \frac{\cos^{m-1} x \operatorname{sen}^{n+1} x}{m+n} + \frac{m-1}{m+n}\int \cos^{m-2} x \operatorname{sen}^n x\,dx$$
$$= -\frac{\operatorname{sen}^{n-1} x \cos^{m+1} x}{m+n} + \frac{n-1}{m+n}\int \cos^m x \operatorname{sen}^{n-2} x\,dx$$

77. $\displaystyle\int x^n \operatorname{sen} ax\,dx = -\frac{1}{a}x^n \cos ax + \frac{n}{a}\int x^{n-1}\cos ax\,dx$

78. $\displaystyle\int x^n \cos ax\,dx = \frac{1}{a}x^n \operatorname{sen} ax - \frac{n}{a}\int x^{n-1}\operatorname{sen} ax\,dx$

79. $\displaystyle\int x^n e^{ax}\,dx = \frac{x^n e^{ax}}{a} - \frac{n}{a}\int x^{n-1}e^{ax}\,dx$

80. $\displaystyle\int x^n \log ax\,dx = x^{n+1}\left[\frac{\log ax}{n+1} - \frac{1}{(n+1)^2}\right]$

81. $\displaystyle\int x^n(\log ax)^m\,dx = \frac{x^{n+1}}{n+1}(\log ax)^m - \frac{m}{n+1}\int x^n(\log ax)^{m-1}\,dx$

82. $\displaystyle\int e^{ax}\operatorname{sen} bx\,dx = \frac{e^{ax}(a\operatorname{sen} bx - b\cos bx)}{a^2+b^2}$

83. $\displaystyle\int e^{ax}\cos bx\,dx = \frac{e^{ax}(b\operatorname{sen} bx + a\cos bx)}{a^2+b^2}$

84. $\displaystyle\int \operatorname{sech} x \tanh x\,dx = -\operatorname{sech} x$

85. $\displaystyle\int \operatorname{csch} x \coth x\,dx = -\operatorname{csch} x$