24.
$$\int \operatorname{senh} x \, dx = \cosh x$$

$$25. \int \cosh x \, dx = \sinh x$$

26.
$$\int \tanh x \, dx = \log|\cosh x|$$

$$27. \int \coth x \, dx = \log|\mathrm{senh}\, x|$$

28.
$$\int \operatorname{sech} x \, dx = \arctan\left(\operatorname{senh} x\right)$$

29.
$$\int \operatorname{csch} x \, dx = \log \left| \tanh \frac{x}{2} \right| = -\frac{1}{2} \log \frac{\cosh x + 1}{\cosh x - 1}$$

30.
$$\int \operatorname{senh}^2 x \, dx = \frac{1}{4} \operatorname{senh} 2x - \frac{1}{2} x$$

31.
$$\int \cosh^2 x \, dx = \frac{1}{4} \operatorname{senh} 2x + \frac{1}{2}x$$

$$32. \int \operatorname{sech}^2 x \, dx = \tanh x$$

33.
$$\int \operatorname{senh}^{-1} \frac{x}{a} \, dx = x \operatorname{senh}^{-1} \frac{x}{a} - \sqrt{x^2 + a^2} \quad (a > 0)$$

34.
$$\int \cosh^{-1} \frac{x}{a} dx = \begin{cases} x \cosh^{-1} \frac{x}{a} - \sqrt{x^2 - a^2} & \left[\cosh^{-1} \left(\frac{x}{a} \right) > 0, a > 0 \right] \\ x \cosh^{-1} \frac{x}{a} + \sqrt{x^2 - a^2} & \left[\cosh^{-1} \left(\frac{x}{a} \right) < 0, a > 0 \right] \end{cases}$$

35.
$$\int \tanh^{-1} \frac{x}{a} dx = x \tanh^{-1} \frac{x}{a} + \frac{a}{2} \log |a^2 - x^2|$$

36.
$$\int \frac{1}{\sqrt{a^2 + x^2}} dx = \log(x + \sqrt{a^2 + x^2}) = \operatorname{senh}^{-1} \frac{x}{a} \quad (a > 0)$$

37.
$$\int \frac{1}{a^2 + x^2} dx = \frac{1}{a} \arctan \frac{x}{a} \quad (a > 0)$$

38.
$$\int \sqrt{a^2 - x^2} \, dx = \frac{x}{2} \sqrt{a^2 - x^2} + \frac{a^2}{2} \arcsin \frac{x}{a} \quad (a > 0)$$

39.
$$\int (a^2 - x^2)^{3/2} dx = \frac{x}{8} (5a^2 - 2x^2) \sqrt{a^2 - x^2} + \frac{3a^4}{8} \arcsin \frac{x}{a} \quad (a > 0)$$

40.
$$\int \frac{1}{\sqrt{a^2 - x^2}} dx = \arcsin \frac{x}{a} \quad (a > 0)$$

41.
$$\int \frac{1}{a^2 - x^2} \, dx = \frac{1}{2a} \log \left| \frac{a + x}{a - x} \right|$$

42.
$$\int \frac{1}{(a^2 - x^2)^{3/2}} \, dx = \frac{x}{a^2 \sqrt{a^2 - x^2}}$$

43.
$$\int \sqrt{x^2 \pm a^2} \, dx = \frac{x}{2} \sqrt{x^2 \pm a^2} \pm \frac{a^2}{2} \log |x + \sqrt{x^2 \pm a^2}|$$

44.
$$\int \frac{1}{\sqrt{x^2 - a^2}} dx = \log|x + \sqrt{x^2 - a^2}| = \cosh^{-1} \frac{x}{a} \quad (a > 0)$$

45.
$$\int \frac{1}{x(a+bx)} dx = \frac{1}{a} \log \left| \frac{x}{a+bx} \right|$$

46.
$$\int x\sqrt{a+bx}\,dx = \frac{2(3bx-2a)(a+bx)^{3/2}}{15b^2}$$