

## Basic Antiderivatives (I)

1.  $\int (x + 2) \, dx$
2.  $\int (3x^2 + 4x) \, dx$
3.  $\int (x + 1)^6 \, dx$
4.  $\int ((x - 1)^3 - (2x - 1)^3) \, dx$
5.  $\int e^{4x+3} \, dx$
6.  $\int (4 + e^{-\frac{x}{2}+1}) \, dx$
7.  $\int \frac{1}{3x+2} \, dx$
8.  $\int \frac{x^3-1}{(x-1)^2} \, dx$ , provided  $x > 1$
9.  $\int \frac{x^2+3x+2}{x+1} \, dx$ , provided  $x > 0$
10.  $\int \frac{1}{x^2-5x+6} \, dx$ , provided  $x < 0$