

$$\int 5x^2 dx = 5 \int \frac{x^2+1}{2+1} + C = 5 \int \frac{x^3}{3} + C \Rightarrow 5 \frac{x^3}{3} + \frac{5x^3}{3} + C$$

$$\int 4x^3 dx = 4 \int x^3 dx = 4 \int \frac{x^{3+1}}{3+1} + C = 4 \int \frac{x^4}{4} + C = \underline{x^4 + C}$$

$$\int 3x^2 dx = 3 \int x^2 dx = 3 \int \frac{x^{2+1}}{2+1} + C = \frac{3x^3}{3} + C$$

$$\int 4x dx = 4 \int x dx = 4 \int \frac{x^{1+1}}{1+1} + C = 4x^2 + C = \underline{x^4 + C}$$

$$\int 5x^5 dx = 5 \int \frac{x^{5+1}}{5+1} + C = 5 \int \frac{x^6}{6} + C = \frac{5x^6}{6} + C$$

$$\int 7x^2 dx = 7 \int \frac{x^2+1}{2+1} + C = 7 \int \frac{x^3}{3} + C = \underline{\frac{7x^3}{3} + C}$$

$$\int x^{-3} dx = \frac{x^{-3+1}}{-3+1} + C = \underline{\frac{x^{-2}}{-2} + C}$$

$$\int 1x^{-1} dx = \ln|x| + C$$

$$\int 5x^5 dx = 5 \int \frac{x^6}{6} + C = \frac{5x^6}{6} + C$$

$$\int 7x^2 dx = 7 \int \frac{x^3}{3} + C = \frac{7x^3}{3} + C$$

$$\int x^{-3} dx = \frac{x^{-3+1}}{-3+1} + C = \frac{x^{-2}}{-2} + C = \frac{1}{2x^2} + C$$

$$\int x^{-7} dx = \frac{x^{-7+1}}{-7+1} + C = \frac{x^{-6}}{-6} + C = -\frac{1}{6x^6} + C$$

$$\int x^{-9} dx = \frac{x^{-9+1}}{-9+1} + C = \frac{x^{-8}}{-8} + C = -\frac{1}{8x^8} + C$$

$$\int x^{-20} dx = \frac{x^{-20+1}}{-20+1} + C = \frac{x^{-19}}{-19} + C = -\frac{1}{19x^{19}} + C$$

$$\int x^7 dx = \frac{x^{7+1}}{7+1} + C = \frac{x^8}{8} + C$$

$$\int t^4 dx = \frac{t^{4+1}}{4+1} + C = \frac{t^5}{5} + C$$

$$\int x^7 dx = \frac{x^{7+1}}{7+1} + C = \frac{x^8}{8} + C$$

$$\int x^{10} dx = \frac{x^{10+1}}{10+1} + C = \frac{x^{11}}{11} + C$$

$$\int x^8 dx = \frac{x^{8+1}}{8+1} + C = \frac{x^9}{9} + C$$