



direct integration.pdf Page 3 of 3

$$\int_{1}^{1} (|x+1|)^{3} dx = \frac{(x+1)^{4}}{4} + C$$

$$\int_{1}^{2} 2x \cdot (|x^{2}+1|)^{4} dx = \frac{(x^{2}+1)^{11}}{11} + C$$

$$\int_{1}^{2} 2x \cdot (|x^{2}+1|)^{4} dx = \frac{(x^{2}+1)^{11}}{11} + C$$

$$\int_{1}^{2} x^{2} (|x^{3}+2|)^{5} dx = \frac{1}{3} \int_{1}^{3} x^{2} \cdot (|x^{3}+2|)^{5} dx = \frac{1}{3} \int_{1}^{3} x^{2} \cdot (|x^{3}+2|)^{5} dx = \frac{1}{3} \int_{1}^{3} x^{2} \cdot (|x^{3}+2|)^{5} dx = \frac{1}{3} \int_{1}^{3} (|x^{3}+2|)^{5} dx = \frac{1}{3} \int_{1$$