

§5.4 (PART 2): INDEFINITE INTEGRALS AND  $u$ -SUBSTITUTION

1.]  $\int \frac{2x}{4x^2 + 1} dx$

2.]  $\int x^2 \sqrt[5]{x} dx$

3.]  $\int 6x(3x^2 + 5)^7 dx$

4.]  $\int 3x \sec^2(x^2 + 1) dx$

$$5.] \int \frac{2x^2}{\sqrt{1-4x^3}} dx$$

$$6.] \int \frac{\sqrt{1+\sqrt{x}}}{\sqrt{x}} dx$$

$$7.] \int \sqrt{1+\sqrt{x}} dx$$