

M1B/Schoenbrun Section 5.5 Substitution

Evaluate using substitution

$$1) \int_0^3 x\sqrt{1+x} dx$$

$$2) \int x^2 (x^3 + 5)^9 dx$$

$$3) \int \frac{1-e^x}{1+e^x} dx$$

$$4) \int x^3 \cos(x^4 + 2) dx$$

$$5) \int x(1+x)^{\frac{1}{3}} dx$$

$$6) \int_0^1 2x^2 (4x+1)^{-\frac{5}{2}} dx$$