

Maths with Lemon

Integrals-Substitution

1. Find the following integrals

(a) $\int \sin(5x + 3)dx.$ (2)

(b) $\int \cos(3x - 2)dx$ (2)

(c) $\int e^{2x-3}dx$ (2)

(d) $\int \sin(1 - x)dx.$ (2)

(e) $\int (3 - x)^{12}dx$ (2)

(f) $\int \frac{1}{x-4}dx$ (2)

(g) $\int \frac{-4}{2x+7}dx$ (2)

(h) $\int \frac{-4}{(7x-37)^4}dx$ (2)

(i) $\int \cos x(\sin x)^2 dx$ (2)