

(7.8) Improper Integration

Full Name: _____

1. Use integration by parts to evaluate each of the following indefinite integrals.

(a) $\int_2^{\infty} \frac{8}{(2x-3)^5} dx$

(b) $\int_3^{\infty} \frac{1}{(4x-3)^{2/5}} dx$

(c) $\int_0^4 \frac{2}{\sqrt{x}} dx$

(d) $\int_0^2 \frac{2}{(x-2)^2} dx$

(e) $\int_1^3 \frac{1}{x-2} dx$