

Written Homework Problems §5.5

19 problems for 38 points

Evaluate the integrals from problems A - E.

Problem A: $\int \sqrt{1+2x} \, dx$

Problem B: $\int \cos\left(\frac{x}{3}\right) \, dx$

Problem C: $\int \frac{5}{(5-8x)^2} \, dx$

Problem D: $\int_0^4 \sqrt{1+2x} \, dx$

Problem E: $\int_0^{3\pi/2} \cos\left(\frac{x}{3}\right) \, dx$

§5.5 #273,275,277,279,281,283,284,285, 292,293,296,297,305

Problem F: This section involved learning a method of integration called *u*-substitution. In your own words, how would you explain to someone else in the class *how* they should pick *u*?