

Math 181 Honors Quiz 1 Version A

1. Solve the following integration problems:

(i) $\int (x^5 + x^3 - 14) dx$

(ii) $\int \ln(3x) dx$

(iii) $\int \frac{x^2 + 17}{x - 3} dx$

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(iv) $\int e^{\ln(x^2+5)} dx$

(v) $\int x\sqrt{x+8} dx$

(vi) $\int \sin^2 x dx$