

Name: _____
MAT 296

Quiz 1: *u*-Sub
Fall 2017

Problem 1: Perform the following integration:

$$\int \frac{e^{x^{2/3}}}{\sqrt[3]{x}} dx$$

Problem 2: Integrate the following:

(a) $\int \sin 2x dx$

(e) $\int (5x - 7)^{10} dx$

(b) $\int e^{\frac{5}{3}x} dx$

(f) $\int \sqrt[5]{(7x + 8)^6} dx$

(c) $\int \sqrt{7x + 1} dx$

(g) $\int \cos(\sqrt[9]{\pi}x) dx$

(d) $\int \frac{3}{1-2x} dx$

(h) $\int \pi^5 e^{15/7} dx$