

Math 2300-007: Quiz 2

Name: _____

Score: _____

1. (2 points) Evaluate the following

(a) $\arctan(\sqrt{3}) =$

(c) $\sin\left(-\frac{3\pi}{2}\right) =$

(b) $\int x^{-1} + x^{-2} dx =$

(d) $\frac{1 - \cos(2\theta)}{2} =$

2. (a) (2 points) Write down an integral that you can evaluate with integration by parts.

(b) (3 points) Evaluate your integral from part (a).

3. (3 points) Integrate $\int \tan^3(x) \sec^4(x) dx$.