MA 159 FORMULA SHEET

The formulas below will be provided on all appropriate quizzes and exams. All other formulas, conversions, and rules not listed below, but used in the homework and/or lectures, will need to be memorized.

$$1 + \tan^{2}\theta = \sec^{2}\theta$$

$$1 + \cot^{2}\theta = \csc^{2}\theta$$

$$\sin\left(\frac{\theta}{2}\right) = \pm \sqrt{\frac{1 - \cos\theta}{2}}$$

$$\tan\left(\frac{\theta}{2}\right) = \frac{1 - \cos\theta}{\sin\theta}$$

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

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$$\tan(\theta) = \frac{1 - \cos\theta}{\sin\theta}$$

$$\tan(\theta) = \frac{2 \sin\theta}{1 - \tan^{2}\theta}$$

$$\tan(\theta) = \frac{2 \tan\theta}{1 - \tan^{2}\theta}$$

$$A = P\left(1 + \frac{r}{n}\right)^{nt}$$

$$A = Pe^{rt}$$

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