

MTH 28.5 CHEAT SHEET (Ojakian)

1. $\frac{-B \pm \sqrt{B^2 - 4AC}}{2A}$

2. Trigonometric Definitions

(a) $\sin(\theta) = \frac{\textit{Opposite}}{\textit{Hypotenuse}}$

(b) $\cos(\theta) = \frac{\textit{Adjacent}}{\textit{Hypotenuse}}$

(c) $\tan(\theta) = \frac{\textit{Opposite}}{\textit{Adjacent}}$

(d) $\cot(\theta) = \frac{1}{\tan(\theta)}$

(e) $\sec(\theta) = \frac{1}{\cos(\theta)}$

(f) $\csc(\theta) = \frac{1}{\sin(\theta)}$

3. Trigonometric Values

(a) $\sin(45^\circ) = \cos(45^\circ) = \frac{\sqrt{2}}{2}$

(b) $\tan(45^\circ) = 1$

(c) $\sin(30^\circ) = \cos(60^\circ) = \frac{1}{2}$

(d) $\sin(60^\circ) = \cos(30^\circ) = \frac{\sqrt{3}}{2}$

(e) $\tan(30^\circ) = \frac{\sqrt{3}}{3}$

(f) $\tan(60^\circ) = \sqrt{3}$