

## 1 Quadratic Formula

The solutions to  $ax^2 + bx + c = 0$  are

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

## 2 Arithmetic

Absolute values.

$$|-1| = 1$$

## 3 Matrix Multiplication

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} \begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix} = \begin{pmatrix} 1 & 3 \\ 3 & 7 \end{pmatrix}$$

## 4 Trigonometric Identities

$$\sin^2 \theta + \cos^2 \theta = 1$$

## 5 Simultaneous Equations

The equations

$$\begin{aligned} 2x + y &= 3 \\ x - y &= 0 \end{aligned}$$

have solution  $x = y = 1$ .