

**Equation 1**

$$\begin{aligned}
 x &= \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \\
 &\frac{-2 \pm \sqrt{2^2 - 4 * (1) * (-8)}}{2 * 1} \\
 &= \frac{-2 \pm \sqrt{4 + 32}}{2}
 \end{aligned}$$

**1   Equation 2**

$$\begin{aligned}
 \varphi_\sigma^\lambda A_t &= \sum_{\pi inc_t} sgn(\pi) \varphi_\sigma^\lambda \varphi_\pi^\lambda \\
 &= A_{\sigma t} \varphi_\sigma^\lambda
 \end{aligned}$$