Complex Number $i^2 = -1$

$\sqrt{-1}$ = i

$\sqrt{-4}$ =2 i

$\sqrt{-9}$ = 3i

Find x = ? $x^2 + 2x + 2 = 0$

$(x^2 + 2x + 1) + 1 = 0$

$(x +1)^2 = - 1$

$x + 1 = i$ $x + 1 = - i$

$x = -1-i$ $x = -1-i$

$x^2 + 2x + 5 = 0$

$(x+1)^2 = - 4$

$x + 1 = 2i$ $x+1 = -2i$

$x = -1+2i$ $x = -1-2i$

$2x^2 + 2x + 10 = x^2$

$x^2 + 2x + 10 = 0$

$(x+1)^2 = - 9$

$x + 1 = 3i$ $x+1 = -3i$

$x = -1+3i$ $x = -1-3i$