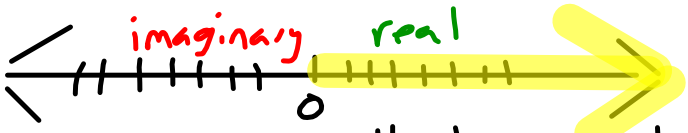
$\sqrt{-3}$ = imaginary
$\sqrt{-2}$ = imaginary
$\sqrt{-1}$ = imaginary

Not on number line

$\sqrt{0} = 0$
$\sqrt{1} = 1$
$\sqrt{2} = 1.41$
$\sqrt{3} = 1.72$
$\sqrt{4} = 2$

on the # line

$\sqrt{x}$



Numbers greater than or equal to 0.
$x \geq 0$

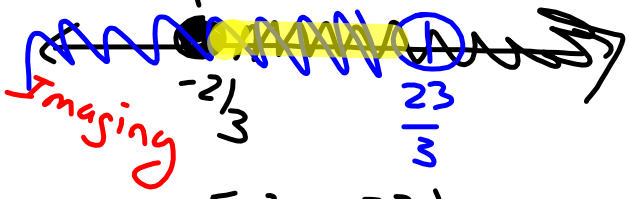
$\sqrt{3x+2} < 5$

$3x+2 \geq 0$

$(\sqrt{3x+2})^2 < (5)^2$

$3x+2 < 25$
$3x < 23$
$x < 23/3$

$3x \geq -2$
$x \geq -2/3$



$[-2/3, 23/3)$