1.9

$2(x+\sqrt{x}-\sqrt{x^2-x})=3\sqrt{x}$

$2x-2\sqrt{x^2-x}=\sqrt{x}$

$2x-2\sqrt{x}\sqrt{x-1}=\sqrt{x}$

$\sqrt{x}(2\sqrt{x}-2\sqrt{x-1}-1)=0$

$x=0$

$2\sqrt{x}-1=2\sqrt{x-1} \quad /()^2$

$4x-4\sqrt{x}+1=4x-4$

$5=4\sqrt{x} \quad /()^2$

$\frac{25}{16}=x$