



$$\vec{AS'} = \frac{1}{2} \vec{AB}$$

$$(s' - a) = \frac{1}{2}(b - a) \quad | \cdot 2$$

$$2s' - 2a = b - a$$

$$s' = \frac{a+b}{2}$$

$$\vec{S'S} = \frac{1}{2} \vec{SC}$$

$$(s - s') = \frac{1}{2}(c - s) \quad | \cdot 2$$

$$2s - 2s' = c - s$$

$$3s = c + 2s'$$

$$3s = a + b + c$$

$$s = \frac{a+b+c}{3} \quad \blacksquare$$