$$S = \sqrt{7 \cdot (2 \cdot 10)} - 11 \qquad (7 \cdot 2 = 14)$$

$$S = \sqrt{14 \cdot 10} - 11 \qquad (14 \cdot 10 = 140)$$

$$S = \sqrt{140} - 11 \qquad (140 = 2^2 \times 35)$$

$$\sqrt{2^2 \times 35}$$

$$\sqrt{2^2} \sqrt{35}$$

$$S = 2\sqrt{35} - 11$$