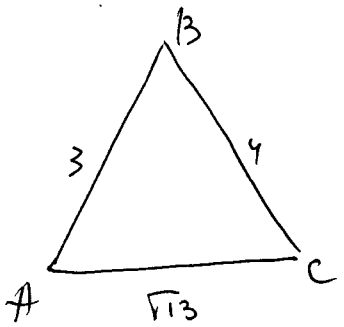

$S = \sqrt{p(p-a)(p-b)(p-c)}$ Формула Герона

$p = \frac{a+b+c}{2}$

$p = \frac{3+4+\sqrt{13}}{2} = \frac{7+\sqrt{13}}{2}$

$$S = \sqrt{\frac{7+\sqrt{13}}{2}\left(\frac{7+\sqrt{13}}{2}-3\right)\left(\frac{7+\sqrt{13}}{2}-4\right)\left(\frac{7+\sqrt{13}}{2}-\sqrt{13}\right)} =$$

$$= \sqrt{\frac{7+\sqrt{13}}{2}\left(\frac{7-6+\sqrt{13}}{2}\right)\left(\frac{7+\sqrt{13}-8}{2}\right)\left(\frac{7+\sqrt{13}-2\sqrt{13}}{2}\right)} =$$

$$= \sqrt{\frac{(7+\sqrt{13})\cdot(1+\sqrt{13})\cdot(-1+\sqrt{13})(7-\sqrt{13})}{16}} = \sqrt{\frac{(7^2-(\sqrt{13})^2)((\sqrt{13})^2-1^2)}{16}} = \frac{(49-13)(13-1)}{16} =$$

$$= \sqrt{\frac{36\cdot 12}{16}} = \cancel{\quad} = \frac{\overset{3}{6}\cdot\overset{1}{2}\sqrt{3}}{\underset{1}{\cancel{4}}} = 3\sqrt{3}$$