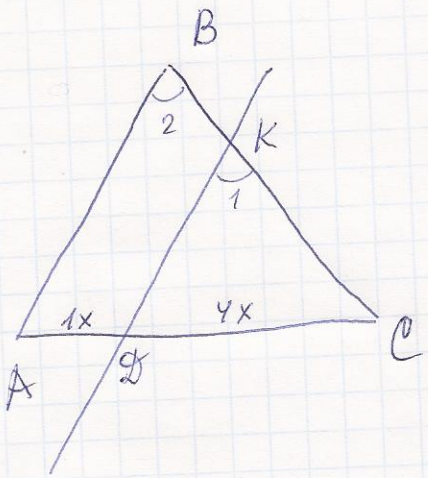

$\Delta ABC \sim \Delta KDC$ по двум углам ($\angle C$ – общий, $\angle 1 = \angle 2$ – соот. – ветственные при $AB \parallel DK$.)

$$\frac{AB}{DK} = \frac{AC}{DC} = \frac{BC}{CK}$$

$AC = 4x + 1x = 5x$

$$\frac{AC}{DC} = \frac{5x}{4x} = \frac{5}{4}$$

$$\frac{S_{\Delta ABC}}{S_{\Delta CKD}} = k^2 \quad (k - \text{коэффициент подобия}).$$

$$\frac{75}{S_{CKD}} = \left(\frac{5}{4}\right)^2$$

$$\frac{75}{S_{CKD}} = \frac{25}{16}; \quad S_{CKD} = \frac{75 \cdot 16}{25} = 48$$

$$S_{ABKD} = S_{ABC} - S_{KCD} = 75 - 48 = 27 \text{ см}^2$$