*

7. Упростите выражение: $\left(\frac{a}{\sqrt{ab}-b}-\frac{\sqrt{b}}{\sqrt{b}-\sqrt{a}}\right)\cdot\frac{(\sqrt{a}-\sqrt{b})b}{a+b}$, $a>b,\ b>0,\ a\neq b$ [2]

[4]

$$= \left(\frac{a}{\sqrt{b}(\sqrt{a}-\sqrt{b})} - \frac{\sqrt{b}}{\sqrt{b}-\sqrt{a}}\right)\cdot\frac{(\sqrt{a}-\sqrt{b})\,b}{a+b} =$$

$$= \frac{1}{\sqrt{a}-\sqrt{b}}\cdot\left(\frac{a}{\sqrt{b}}+\sqrt{b}\right)\cdot\frac{(\sqrt{a}-\sqrt{b})\cdot b}{a+b} =$$

$$= \frac{a+b}{\sqrt{b}}\cdot\frac{b}{a+b} = \frac{b}{\sqrt{b}} = \sqrt{b}$$