475. Racionalizirajte nazivnik $\frac{2xy}{x+y+\sqrt{(x+y)^2-2xy}}$.

1. $x+y-\sqrt{x^2+y^2}$ 2. $x+y+\sqrt{x^2+y^2}$ 3. $x-y-\sqrt{x^2+y^2}$
4. $x-y+\sqrt{x^2+y^2}$

$$\frac{2xy}{x+y+\sqrt{(x+y)^2-2xy}}\cdot\frac{x+y-\sqrt{(x-y)^2-2xy}}{x+y-\sqrt{(x+y)^2-2xy}}=$$

$$=\frac{2xy(x+y)-\sqrt{(x+y)^2-2xy}}{(x+y)^2-\left(\sqrt{(x+y)^2-2xy}\right)^2}=$$

$$=\frac{2xy\left(x+y-\sqrt{x^2+2xy+y^2-2xy}\right)}{x^2 2xy+y^2-(x+y)^2-2xy}=$$

$$=\frac{2xxy\left(x+y-\sqrt{x^2+y^2}\right)}{x^2+2xy+y^2-\left(x^2+2xy+y^2-2xy\right)}$$

$$=\frac{2xy\left(x+y-\sqrt{x^2+y^2}\right)}{x^2+2xy+y^2-x^2-y^2}=\frac{2xy\left(x+y-\sqrt{x^2+y^2}\right)}{2xy}$$

$$=x+y-\sqrt{x^2+y^2}$$