

499. 8) Sabrati razlomke:

$$\frac{8a^7}{a^8 + b^8} + \frac{4a^3}{a^4 + b^4} + \frac{2a}{a^2 + b^2} + \frac{1}{a + b} + \frac{1}{a - b}$$

$$\frac{8a^7}{a^8 + b^8} + \frac{4a^3}{a^4 + b^4} + \frac{2a}{a^2 + b^2} + \frac{1}{a + b} + \frac{1}{a - b}$$

$$\frac{8a^7}{a^8 + b^8} + \frac{4a^3}{a^4 + b^4} + \frac{2a}{a^2 + b^2} + \frac{a - b + a + b}{a^2 - b^2}$$

$$\frac{8a^7}{a^8 + b^8} + \frac{4a^3}{a^4 + b^4} + \frac{2a}{a^2 + b^2} + \frac{2a}{a^2 - b^2}$$

$$\frac{8a^7}{a^8 + b^8} + \frac{4a^3}{a^4 + b^4} + \frac{2a(a^2 - b^2) + 2a(a^2 + b^2)}{a^4 - b^4}$$

$$\frac{8a^7}{a^8 + b^8} + \frac{4a^3}{a^4 + b^4} + \frac{4a^3}{a^4 - b^4}$$

$$\frac{8a^7}{a^8 + b^8} + \frac{4a^3(a^4 - b^4) + 4a^3(a^4 + b^4)}{a^8 - b^8}$$

$$\frac{8a^7}{a^8 + b^8} + \frac{8a^7}{a^8 - b^8}$$

$$\frac{8a^7(a^8 - b^8) + 8a^7(a^8 + b^8)}{a^{16} - b^{16}} = \frac{16a^{15}}{a^{16} - b^{16}}$$