

3.84
к) 2

$$(4x^2 - 2x + 1)^{15} (2x + 1)^{16} = [(4x^2 - 2x + 1)(2x + 1)]^{15} (2x + 1) = (8x^3 + 1)^{15} (2x + 1)$$

$$T_{k+1} = \binom{15}{k} (8x^3)^{15-k} 1^k$$

$$x^{15}: 45 - 3k = 15 \rightarrow k = 10$$

$$T_{11} = \binom{15}{10} 8^{15-10} x^{16} = C_{15}^{10} 2^{15} x^{16}$$

$$x^{16}: 45 - 3k = 16 \rightarrow \text{невозможно}$$