

$$\sqrt{ab} + \sqrt{a}b = \sqrt{ab} + \sqrt{ab} = 2\sqrt{ab}$$

$$\sqrt{ab} + \sqrt{a}b^2 = \sqrt{ab} + \sqrt{ab}b = \sqrt{ab}(1+b)$$

$$\sqrt{ab} + \sqrt{a}b^3 = \sqrt{ab} + \sqrt{ab}b^2 = \sqrt{ab}(1+b^2)$$

$$\sqrt{ab} + \sqrt{a}b^4 = \sqrt{ab} + \sqrt{ab}b^3 = \sqrt{ab}(1+b^3)$$

$$\sqrt{ab} + \sqrt{a}b^5 = \sqrt{ab} + \sqrt{ab}b^4 = \sqrt{ab}(1+b^4)$$

$$\sqrt{ab} + \sqrt{a}b^6 = \sqrt{ab} + \sqrt{ab}b^5 = \sqrt{ab}(1+b^5)$$