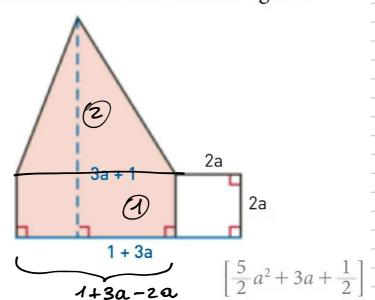
Trova l'area della zona colorata in figura.



26/11/2019

$$A_{1} = (1+3a-2a)\cdot 2a = (1+a)\cdot 2a = 2a+2a^{2}$$

$$A_2 = \frac{1}{2}(1+a)(3a+1-2a) = \frac{1}{2}(1+a)\cdot(a+1) =$$

BAGE

ALTEREA

$$= \frac{1}{2} (a + 1 + a^2 + a) = \frac{1}{2} (2a + 1 + a^2) = a + \frac{1}{2} + \frac{1}{2} a^2$$

$$= \left(2 + \frac{1}{2}\right) a^{2} + 3a + \frac{1}{2} = \frac{4+1}{2} a^{2} + 3a + \frac{1}{2} =$$

$$=\frac{5}{2}\alpha^{2}+3\alpha+\frac{1}{2}$$

Il sig. Rossi impiega 10 000 euro in una forma di investimento che prevede un tasso d'interesse annuo dell'x%. Gli interessi maturati dopo un anno vengono versati nell'investimento e contribuiscono a generare nuovi interessi l'anno successivo. Dopo il primo anno il tasso d'interesse diminuisce dell'1%. Esprimi tramite un polinomio ridotto il capitale complessivo (comprensivo di tutti gli interessi maturati) a disposizione del sig. Rossi dopo 2 anni.  $[x^2 + 199x + 9900]$ 

DOPO 1 ANNO CAPITALE = 
$$10000 + 10000 \cdot \frac{X}{100}$$
 $= 10000 + 100 \times$ 

DOPO 2 ANNI CAPITALE =  $10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 100 \times + (10000 + 100 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + 1000 \times + (10000 + 1000 \times)(X - 1) = 10000 + (10000 + 10000 \times)(X - 1) = 10000 + (10000 + 10000 \times)(X - 1) = 10000 + (10000 + 10000 \times)(X - 1) = 10000 + (10000$ 

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$$(x^{2n} + 1)(x^{2n} - 2) - [(x^{2n})^{3n+2}] : (x^{3n})^{2n} =$$

$$= x - 2x + x - 2 - [x^{2n}] : (x^{3n})^{2n} =$$

$$= x - 2x + x - 2 - [x^{2n}] : (x^{3n})^{2n} =$$

$$= x - 2x + x - 2 - [x^{2n}] : (x^{3n})^{2n} =$$

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$$= x - 2x + x - 2x + x - 2x - [x^{2n}] : (x^{3n})^{2n} =$$

5. 
$$\frac{(-3a^{2}b^{3})^{2n} + a^{4n}b^{6n}}{(ab)^{4n}} = \frac{2m}{3} \frac{4^{m}b^{6m} + a^{4m}b^{6m}}{a^{4m}b^{4m}} = \frac{3m}{3} \frac{4^{m}b^{6m} + a^{4m}b^{6m}}{a^{4m}b^{4m}} = \frac{3m}{3} \frac{4^{m}b^{6m}b^{6m}}{a^{4m}b^{4m}} = \frac{3m}{3} \frac{4^{m}b^{6m}b^{6m}}{a^{4m}b^{4m}} = \frac{3m}{3} \frac{4^{m}b^{6m}b^{6m}}{a^{4m}b^{6m}} = \frac{3m}{3} \frac{3m}{3} \frac{4^{m}b^{6m}b^{6m}}{a^{4m}b^{6m}} = \frac{3m}{3} \frac{3m$$

$$= \frac{(3^{2m} + 1)a^{4m}b^{6m}}{a^{4m}b^{4m}} = \frac{(3^{m} + 1)a^{6m}b^{6m}}{a^{4m}b^{4m}} = \frac{(3^{m} + 1)a^{6m}b^{4m}}{a^{4m}b^{4m}} = \frac{(3^{m} + 1)a^{6m}b$$

$$= (9^m + 1) l^{2m}$$

$$2. \ \frac{(2x^n)^{2n+1}(2x^{3n}y^{n+1})^n}{(2x^{4n}y^n)^n} =$$