

1. Find the first 3 terms, in ascending powers of  $x$ , in the binomial expansion of

$$(2-5x)^6$$

Give each term in its simplest form.

(4)

$$(a-b)^6 = a^6 - 6a^5b + 15a^4b^2$$

$$a=2 \quad b=5x \quad (2-5x)^6 = 2^6 - 6(2)^5(5x) + 15(2)^4(5x)^2$$

$$= 64 - 960x + 6000x^2$$

2.  $f(x) = ax^2 + bx^2 - 4x - 3$ , where  $a$  and  $b$  are constants.

Given that  $(x-1)$  is a factor of  $f(x)$ ,

- (a) show that

$$a + b = 7$$

(2)

Given also that, when  $f(x)$  is divided by  $(x+2)$ , the remainder is 9,

- (b) find the value of  $a$  and the value of  $b$ , showing each step in your working.

(4)

$$f(1) = 0 \Rightarrow a + b - 4 - 3 = 0 \therefore a + b = 7$$

$$f(-2) = 9 \Rightarrow -8a + 4b + 8 - 3 = 9 \therefore -8a + 4b = 4$$

$$\Rightarrow -2a + b = 1$$

$$-2a + b = 1$$

$$-a + b = 7$$

$$-3a = -6 \quad \therefore a = 2 \quad b = 5$$

(Total 4 marks)

3. A company predicts a yearly profit of £120 000 in the year 2013. The company predicts that the yearly profit will rise each year by 5%. The predicted yearly profit forms a geometric sequence with constant ratio 1.05.

- (a) Show that the predicted profit in the year 2014 is £126 000.

(1)

- (b) Find the first year in which the yearly predicted profit exceeds £200 000.

(4)

- (c) Find the total predicted profit for the years 2013 to 2023 inclusive, giving your answer to the nearest pound.

(3)

$$a) 120000 \times 1.05 = 126000 \quad u_1 = 2013$$

$$u_2 = 2014$$

$$u_n = ar^{n-1}$$

$$u_n = 2015$$

$$b) u_n = ar^{n-1} > 200000$$

$$\Rightarrow 120000 \times 1.05^{n-1} > 200000$$

$$\Rightarrow 1.05^{n-1} > \frac{5}{3} \Rightarrow (n-1)\log 1.05 > \log\left(\frac{5}{3}\right)$$

$$\Rightarrow n-1 > \frac{\log\left(\frac{5}{3}\right)}{\log(1.05)} \Rightarrow n-1 > 10.47$$

$$\Rightarrow n > 11.47$$

$$(n=12) \text{ year } 2024$$

$$c) S_n = a \frac{(r^n - 1)}{r - 1} \quad 2023 \Rightarrow u_n \quad n=11$$

$$S_n = \frac{120000(1.05^{11} - 1)}{0.05} = \frac{1704814.459}{0.05} = \underline{\underline{\pounds 1704814}}$$

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