

Section A (36 marks)

- 1 Find the value of each of the following.

(i) $\left(\frac{5}{3}\right)^{-2}$

[2]

(ii) $81^{\frac{1}{2}}$

[2]

- 2 Simplify
- $\frac{(4x^5y)^2}{(2xy^2) \times (8x^{10}y^4)}$
- .

[3]

- 3 A circle has diameter
- d
- , circumference
- C
- , and area
- A
- . Starting with the standard formulae for a circle, show that
- $Cd = kA$
- , finding the numerical value of
- k
- .

[3]

- 4 Solve the inequality
- $5x^2 - 28x - 12 \leq 0$
- .

[4]

- 5 You are given that
- $f(x) = x^2 + kx + c$
- .

Given also that $f(2) = 0$ and $f(-3) = 35$, find the values of the constants k and c .

[4]

- 6 The binomial expansion of
- $\left(2x + \frac{2}{x}\right)^8$
- has a term which is a constant. Find this term.

[4]

- 7 (i) Express
- $\sqrt{48} + \sqrt{75}$
- in the form
- $a\sqrt{b}$
- , where
- a
- and
- b
- are integers.

[2]

(ii) Simplify $\frac{7 + 2\sqrt{3}}{7 + \sqrt{3}}$, expressing your answer in the form $\frac{a + b\sqrt{3}}{c}$, where a , b and c are integers.

[3]

- 8 Rearrange the equation
- $5c + 9r = a(2c + r)$
- to make
- c
- the subject.

[4]

- 9 You are given that
- $f(x) = (x + 2)^2(x - 3)$
- .

(i) Sketch the graph of $y = f(x)$.

[3]

(ii) State the values of x which satisfy $f(x + 3) = 0$.

[2]

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Camilla Rothe



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