IGCSE Practice Exam Paper

Total Marks: 20

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Question 1   [4 marks]

Factorise the quadratic expression x^2 + 5x + 6.

Answer:

$$(x+3)(x+2)$$

Question 2   [4 marks]

Factorise completely 2x^2 - 8.

Answer: $2x^2 - 8$

$= 2(x^2 - 2^2)$

$= 2(x-2)(x+2)$

Question 3
[2 marks]

Expand and simplify (x + 1)(x + 4).

Answer:

$x^2 + 5x + 4$

Question 4
[2 marks]

Factorise completely 4x + 8.

Answer:

$4(x + 2)$

Question 5
[2 marks]

Factorise x^2 + 5x.

Answer: $x(x+5)$

Question 6
[2 marks]

Simplify (a^3)^2 * a^4.

Answer:

$$(a^3)^2 \times a^4$$
$$= a^{6+4}$$
$$= a^{10}$$

Question 7 [1 mark]

Expand $3(y - 2)$.

Answer: $3y - 6$

Question 8 [1 mark]

Simplify $x + x + x$.

Answer: $5x$

Question 9 [1 mark]

What is the value of x^0?

Answer: 1

Question 10 [1 mark]

What is the value of $5x^0$?

Answer: 5