

AQA, OCR, Edexcel

GCSE

GCSE Maths

Functions Questions

Name:

M M E

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Total Marks: /42

Functions

1. f is a function such that $f(x) = x^2 + 2x - 2$.
 - a. Find $f(3)$
 - b. Find $f(10)$
 - c. Find $f(1.5)$

(3 Marks)

2. f is a function such that $f(x) = -5(x + 5)$.
 - a. Find $f(12)$
 - b. Find $f(-0.5)$
 - c. Find $f(-\pi)$

(3 Marks)

3. f is a function such that $f(x) = \frac{10}{3x-5}$.
 - a. Find $f(10)$
 - b. Find $f(-1)$
 - c. Find $f(0.25)$

(3 Marks)

4. Let $f(x) = 5x - 10$ and $h(x) = -\frac{5}{x}$.
 - a. Find $fh(x)$
 - b. Find $hf(x)$

(4 Marks)

5. Let $g(x) = \frac{-2}{2x+5}$ and $h(x) = 2x - 3$.

- a. Find $gh(x)$
- b. Find $hg(x)$

(4 Marks)

6. Let $f(x) = \frac{2+x}{5}$.

- a. Find $f^{-1}(x)$
- b. Find $f^{-1}(10)$

(4 marks)

7. Let $f(x) = x^2 + 4x - 6$.

- a. Find $f^{-1}(x)$
- b. Find $f^{-1}(-10)$

(4 Marks)

8. Let $f(x) = x^2 + 3x - 2$ and $h(x) = x + 3$.

- a. Find $fh(x)$
- b. Find $hf(x)$

(4 marks)

9. f is a function such that $f(x) = \frac{2}{3x-3}$.

- a. Find $f^{-1}(x)$
- b. Find $ff^{-1}(x)$
- c. Find $ff^{-1}(-2)$

(7 Marks)

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10. f is a function such that $f(x) = \frac{4x+1}{3x-5}$.

- a. Find $f^{-1}(x)$
- b. Find $ff^{-1}(x)$

(6 Marks)