

Mock Test 2 Solutions

Part A: Knowledge and Understanding

1a) $\frac{-1}{8}$

1b) $\frac{-1}{2}$

1c) $\frac{-1}{x^2}$

1d) $\frac{1}{108}$

2a) 3

2b) 2

2c) 2

2d) 0

2e) 3

2f) 4

3) -7

Part B: Application

1) $y = \frac{1}{2}x + \frac{3}{2}$

2) $y = -11x + 24$

3) see video solutions

Part C: Communication

1) hole at $x = -3$

2) see video solutions

3a) average rate of change between $x = 2$ and $x = 5$ is 7

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3b) instantaneous rate of change at $x = 2$ is 9

Part D: Thinking

1) $(0, 0)$

2) $a = -5, b = 7$