

# Maths Methods Assigned Questions 2018

## Unit 3

### Chapter 1: Functions & Relations

- 1A: 1, 2, 3, 4 (g,h,l,j), 6, 7, 8, 9, 10  
1B: 1, 2, 3, 4, 5, 6, 8, 9 (a,c,e), 12, 15, 16  
1C: 1, 2, 3, 4, 5, 6, 8 (LHS), 9, 11, 14, 19 (a,b,d,h)  
1D: 1, 4, 6, 7, 8, 10, 12  
1E: 1(b,d,f), 2 (c,f,g), 3, 4, 5, 6, 8, 10, 12  
1F: 1, 2 (a,c), 3, 5, 7 (b,c,d,h), 8 (d,f,g), 9 (a,c,d,f),  
10 (a,c), 11 (b,d,g,h), 12, 13, 17  
1G: 1, 2, 3, 4, 5  
1H: 1, 2, 3, 4, 5, 6, 7

### Chapter 2: Linear Coordinate Geometry

- 2A: 1 (b,c,d,f,g,i,j), 2 (b,c,e,f), 3, 6, 10  
2B: 1 (a,c,e,g,j,m,n), 2 (b,d,e,f), 3 (b,e,g,h), 5  
2C: 1, 3 (b,d), 4 (b,f), 5 (b,d), 6 (c,d), 9, 11b, 14, 20, 25  
2D: 1, 3, 6  
2E: 1, 2, 3, 4 (a,b,c,e,g), 6, 7  
2F: 1 (a,b,d), 2, 4, 7, 8  
2G: 1 (b,d), 3, 5, 6

### Chapter 3: Transformations

- 3A: 1, 2, 3 (LHS), 6 (a,b), 7 (a,c,e), 8  
3B: 1, 3, 4, 7, 9, 10, 11 (b,c,g)  
3C: 1, 3, 4 (b,c,f)  
3D: 1, 2, 4 (a,e), 5  
3E: 1, 2, 3, 4 (c, d, e, f)  
3F: 1 (b,d,f,g), 2 (b,c,e,h,i,k), 3  
3G: 1 (c,f,g,l), 2, 3, 4, 6, 8  
3H: 1, 2, 4, 7, 8  
3I: 1, 2, 3, 4, 6, 8, 9, 12, 15, 17  
3J: 1, 4, 6, 7, 9, 10, 12

### Chapter 4: Polynomial Functions

- 4A: 1(d,g,i), 2(b,e,f), 3(c,e), 4(c,d), 9, 10(a,b,c), 11, 14  
4B: 1, 3, 6, 7 (b,c,e,f,g)  
4C: 3 (b,c,d), 4 (b,c,d,f,h), 7  
4D: 1b, 2b, 3b, 5a, 7, 9, 11, 14, 16b, 17b, 19 (c,f,h)  
4E: 1 (c,d,e,f), 2d, 3  
4F: 1, 2, 3  
4G: 1 (a,b), 2, 4, 6 (a,b,c,d), 7b  
4H: 1 (a,c,e,f,h), 2 (a,f), 3b, 4c, 5c, 9, 10, 15, 17, 19

### Chapter 5: Exponential & Logarithmic Functions

- 5C: 1(a,c,d,e,f,g,h), 2(a,b,d,e,h), 3(a,e,f,h), 4(a,c,d,e,h)  
5D: 1(a,b,d), 2(a,b,d,f,g,h), 3(rhs), 4(lhs), 6(lhs), 8, 10a  
5A: 5, 7(a,b,c,d,f,g), 11 (a,b)  
5B: 1 (rhs), 2, 3 (b,d,f), 4 (rhs)  
5E: 1 (b,d), 2 (LHS), 3 (e,g,j,l), 5  
5F: 1, 2, 3, 5, 7, 8, 12  
5G: 1 (a, b), 2 (RHS), 3, 4 (a,b,d,g), 5 (a,c,e), 7, 9  
5H: 2, 5 (RHS), 8, 10 (a,b,e,h), 11  
5I: 1, 2, 3, 4, 6, 9, 14, 15

### Chapter 6: Circular Functions

- 6A: All questions  
6B: 1, 2, 3, 5, 6  
6C: 1, 2 (a,c,e,g)  
6E: 1, 2, 3, 4 (a,d), 5 (a,d), 6 (d,e,f), 7, 8 (LHS & RHS)  
6K: 1, 2, 4, 5, 6, 8, 9  
6D: 2 (a,c), 3 (b,d), 4 (a,c,d,f), 6, 8, 10, 11, 12, 13  
6F: 1 (a,b,f,h,l), 2, 3, 4, 5 (c,d)  
6G: 2, 3 (a,c,e,f), 4 (b,c), 5 (RHS), 6, 7  
6H: 1 (a,d,e)  
6I: 1, 3, 4, 6, 8  
6J: 1,2 (a,c), 3(a,b), 4(a,c,e), 5, 6, 11(a,c,d,f,h,i,j),  
14, 15  
6L: 2, 3, 4, 6

### Chapter 7: Further Functions

- 7A: 1, 2, 3, 4 (a,c,e), 5, 6 (a,c,e)  
7B: 1 (a,c,e,g), 2 (a,c,e), 3a, 4 (a,d,f), 5, 6, 9, 12, 17, 19  
7C: 1, 4  
7D: 1, 3, 4, 6, 12  
7E: 1, 2, 3, 4, 5, 6, 9, 10, 12, 14, 15

### Chapter 8: Revision

Use as SAC revision

# Maths Methods Assigned Questions 2018

## Unit 4

### Chapter 9: Differentiation

- 9A: 1, 4 (LHS), 5, 7, 8 (RHS)  
9B: 1 (b,e,h), 2, 3, 5 (RHS), 6 (c,e,f), 8, 9 (c,d,e),  
10 (c,d,e), 13, 14, 15, 16, 17, 21  
9C: 2, 4, 5, 6 (b,d), 10, 11  
9D: 1 all except (b,f,g,i), 2 all except (c,d,f,g,i), 3,  
4, 6  
9E: 1, 2 (c,d), 3, 5  
9F: 2 (c,d,e,f), 3 (b,d), 4, 6, 7  
9G: 1, 2, 3, 5a, 6  
9H: 1 (LHS), 2, 3, 4 (LHS), 5, 8  
9I: 1, 2 (d,e,f), 3, 4 (b,c), 5, 6  
9J: 1 (a,b,e,f,g,l,j,l), 2, 3, 4 (c,d,e,f), 5, 6, 8  
9K: 1 (a,b,c,d,g), 3, 4, 5, 6c  
9L: 1 (a,b,d,f,h,j,l), 2, 3, 4  
9M: 1, 2, 3

### Chapter 10: Applications of differentiation

- 10A: 1, 2, 3, 5, 6 (d,e,g,j), 7, 9 (a,b,e,f), 10 (RHS), 11, 12  
(b,c), 13, 15, 16  
10B: 1, 2, 5, 7, 9, 11, 13, 17  
10C: 1 (a,d,e,h), 2 (a,b,c), 3, 4, 5, 8  
10D: 2 (grad tab), 3 (a,c,e), 5, 9, 10, 15, 18, 19, 22, 25,  
26 (a,b)  
10E: 1, 2, 3, 4, 5, 8, 11, 12, 13, 14, 16 (for 13, 14, 16  
sketch graph with CAS to determine shape if needed)  
10F: 1, 2, 3, 4, 5, 6, 8, 15, 17  
10G: 1, 2, 3, 4, 5, 9

### Chapter 11: Antidifferentiation

- 11B: 2, 3, 4, 5, 6, 8  
11C: Q1 (col 2 & 3), 2, 3, 5, 6, 7, 8, 9  
11D: 2, 3, 4, 5, 6  
11A: 1, 2, 4, 5, 7, 8  
11E: 1 (b, e, h), 2, 3, 4, 5  
11F: 2, 3, 4, 7, 8, 10, 12  
11G: 1, 2 (RHS), 3, 4 (a,c,e,f), 5, 6

11H: 1(RHS),3,4, 5, 6, 7(RHS), 8, 10, 12, 15, 18, 20

11I: 1, 2, 3 (LHS), 4, 5, 7, 9

11J: 1 (LHS), 2, 5, 6, 7, 8, 10, 11, 12, 14, 18

### Chapter 12: Revision

Use as SAC revision

### Chapter 13: Discrete Random Variables

- 13A: 1, 3, 4, 5, 7, 8, 9, 11, 12, 14, 15, 17  
13B: 1, 2, 5, 6, 7, 8, 9, 10, 12, 14, 17, 18, 19  
13C: 1, 3, 4, 5, 6, 7, 9, 11, 12, 15, 19  
13D: 1, 2 (a,c,f), 3, 6, 7, 8, 10, 12, 14, 15, 18

### Chapter 14: The Binomial Distribution

- 14A: 1, 2, 4, 5, 7, 8, 10, 12, 16, 17, 19, 20, 22  
14B: 2, 4, 5, 7, 8, 10  
14C: 1, 2, 3, 5, 7

### Chapter 15: Continuous Random Variables

- 15A: 1, 2, 3, 5, 6, 7, 10, 12, 14  
15B: 1, 3, 4, 5, 6, 7, 10, 11, 15  
15C: 1, 2, 3, 5, 8, 11  
15D: 1, 3

### Chapter 16: The Normal Distribution

- 16A: 1, 2, 3, 7, 8, 9  
16B: 1, 2, 4, 7, 9, 10, 11, 12, 14  
16C: 1 (a,d,e,h), 4, 6, 7, 8, 9, 12, 14, 15, 17  
16D: 2, 4, 5, 6, 9, 10, 12  
16E: 1, 2, 3, 5, 6

### Chapter 17: Sampling and Estimation

- 17A: 1, 2, 3, 4, 6, 7, 9, 11, 12, 13  
17B: 1, 2, 4, 5, 7, 8, 10, 11, 12, 14  
17C: Q3, 5, 6, 8, 9  
17D: 1, 3, 5, 6, 7, 9, 10, 12

### Chapter 18: Revision

Use as SAC revision