

Exam #7 - SOLUTION

Penalty for incorrect answer: 25%

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Answer	c	a	b	a	b	a	d	c	d	a	c	a	c	c	d	d	a	a	c	d

1. What is $P(A \cup B)$ if A,B disjoint? (Val: 0.8955223880597014)

- a $P(A)-P(B)$
- b $P(A) \times P(B)$
- c **P(A)+P(B) [CORRECT]**
- d 1

2. Algebra Q4: Solve for x... (Val: 1.1940298507462686)

- a **Answer A (Correct) - Algebra Q4 [CORRECT]**
- b Answer B (Wrong) - Algebra Q4
- c Answer C (Wrong) - Algebra Q4
- d Answer D (Wrong) - Algebra Q4

3. Calculus Q10: Solve for x... (Val: 1.1940298507462686)

- a Answer B (Wrong) - Calculus Q10
- b **Answer A (Correct) - Calculus Q10 [CORRECT]**
- c Answer D (Wrong) - Calculus Q10
- d Answer C (Wrong) - Calculus Q10

4. What is the complement of $P(A)$? (Val: 0.8955223880597014)

- a **1-P(A) [CORRECT]**
- b $1+P(A)$
- c $1/P(A)$
- d $P(A)$

5. What is $\tan(0 \text{ degrees})$? (Val: 0.5970149253731343)

- a 1
- b **0 [CORRECT]**
- c infinity
- d undefined

6. Calculus Q5: Solve for x... (Val: 1.1940298507462686)

- a **Answer A (Correct) - Calculus Q5 [CORRECT]**
- b Answer B (Wrong) - Calculus Q5
- c Answer C (Wrong) - Calculus Q5
- d Answer D (Wrong) - Calculus Q5

7. Mean of {5,5,5,5}? (Val: 0.8955223880597014)

- a 10
- b 0
- c 20
- d **5 [CORRECT]**

8. Algebra Q7: Solve for x... (Val: 1.1940298507462686)

- a Answer C (Wrong) - Algebra Q7
- b Answer D (Wrong) - Algebra Q7
- c **Answer A (Correct) - Algebra Q7 [CORRECT]**
- d Answer B (Wrong) - Algebra Q7

9. Median of {2,4,6,8}? (Val: 0.8955223880597014)

- a 6
- b 7
- c 4
- d **5 [CORRECT]**

10. Algebra Q8: Solve for x... (Val: 1.1940298507462686)

- a **Answer A (Correct) - Algebra Q8 [CORRECT]**
- b Answer D (Wrong) - Algebra Q8
- c Answer B (Wrong) - Algebra Q8
- d Answer C (Wrong) - Algebra Q8

11. Calculus Q3: Solve for x... (Val: 1.1940298507462686)

- a Answer D (Wrong) - Calculus Q3
- b Answer C (Wrong) - Calculus Q3
- c **Answer A (Correct) - Calculus Q3 [CORRECT]**
- d Answer B (Wrong) - Calculus Q3

12. What is $\sin(30 \text{ degrees})$? (Val: 0.5970149253731343)

- a **1/2 [CORRECT]**
- b 0
- c sqrt3/2
- d 1

13. Algebra Q9: Solve for x... (Val: 1.1940298507462686)

- a Answer C (Wrong) - Algebra Q9
- b Answer B (Wrong) - Algebra Q9
- c **Answer A (Correct) - Algebra Q9 [CORRECT]**
- d Answer D (Wrong) - Algebra Q9

14. Algebra Q6: Solve for x... (Val: 1.1940298507462686)

- a Answer C (Wrong) - Algebra Q6
- b Answer D (Wrong) - Algebra Q6
- c **Answer A (Correct) - Algebra Q6 [CORRECT]**

d Answer B (Wrong) - Algebra Q6

15. Calculus Q4: Solve for x... (*Val: 1.1940298507462686*)

- a Answer B (Wrong) - Calculus Q4
- b Answer C (Wrong) - Calculus Q4
- c Answer D (Wrong) - Calculus Q4
- d Answer A (Correct) - Calculus Q4 [CORRECT]**

16. Sum of angles in a triangle? (*Val: 0.8955223880597014*)

- a 270 degrees
- b 90 degrees
- c 360 degrees
- d 180 degrees [CORRECT]**

17. What is cos(90 degrees)? (*Val: 0.5970149253731343*)

- a 0 [CORRECT]**
- b -1
- c 1/2
- d 1

18. Pythagorean theorem: a squared + b squared = ? (*Val: 0.8955223880597014*)

- a c squared [CORRECT]**
- b ab
- c 2c
- d a+b

19. Calculus Q7: Solve for x... (*Val: 1.1940298507462686*)

- a Answer C (Wrong) - Calculus Q7
- b Answer B (Wrong) - Calculus Q7
- c Answer A (Correct) - Calculus Q7 [CORRECT]**
- d Answer D (Wrong) - Calculus Q7

20. Area of a circle with radius 5? (*Val: 0.8955223880597014*)

- a 50 pi
- b 10 pi
- c 5 pi
- d 25 pi [CORRECT]**