

CSULB MATH DAY AT THE BEACH 2019

ANSWERS

INDIVIDUAL ROUND, PART 1: MULTIPLE CHOICE

1. B 2. C 3. A 4. C 5. D 6. E 7. D 8. A 9. B 10. C

INDIVIDUAL ROUND, PART 2: FREE RESPONSE

11. $\sqrt{3}$ 12. $(-4, 1)$ 13. 35 14. 8

INDIVIDUAL ROUND, PART 3: FREE RESPONSE

15. 10 16. $1/3$ 17. 6 18. $360/625 = 72/125 = 0.576$

TEAM ROUND

1. 4 2. $\frac{\pi}{6} < x < \frac{\pi}{2}$ 3. $31 - 10\sqrt{6}$ 4. 7,067 5. $\frac{1}{32}$ 6. all of \mathbb{R}
7. 19 8. $\frac{1}{4} + \frac{1}{28}$

RELAY 0

Q1. 20 Q2. 60 Q3. 10

RELAY 1

Q1. 18 Q2. 74 Q3. 8

RELAY 2

Q1. 16 Q2. 4 Q3. -6

FACEOFF ROUND

Q1. 89 Q2. 7 Q3. 3 Q4. 0.973 Q5. 130° Q6. 18 Q7. 62 Q8. $\frac{7}{75}$
Q9. 57.08% Q10. 4 Q11. 11 Q12. $\frac{7}{10}$