

GRE出国考试自测模拟试题一（1）PDF转换可能丢失图片或格式，建议阅读原文

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Questions In the rectangular coordinate system , the circle with center P is tangent to both the x- and y-axes. 1. The x-coordinate of P The y- coordinate of P 2. 1 3. The square is inscribed in the circle. 4. The length of a diagonal The length of a diameter of the square of the circle x 5. x y 35 In college M the average (arithmetic mean) number of students per course is 30 and the ratio of the number of students to the number of faculty is 20 to 1. 6. The total number 600 of students in College M $x > 0$ 7. 8. x 80 Integer n will be randomly 0selected from the integers 1 to 13 , inclusive. 9. The probability that The probability that n will be even n will be odd $p q = 1 0$ 10. 1 $2x 3y = 29 3x 4y = 41$ 11. x y 12 $PQ = OQ = 5$ 12. The area of region OPQ 10 13. $20 = n , r , s ,$ and t are positive integers. 14. $2n r 2s t$ In the xy-coordinate system , the point (x , y) lies on the circle with equation $x y = 1$ 15. x y 1.01 16. A health food store prepares a breakfast food that consists of oats , raisins , and nuts mixed in the ratio 9 : 2 : 1 , respectively , by weight. If the nuts in the mixture weigh 9.2 pounds , how many pounds does the total mixture weigh ? (A) 82.2 (B) 92.2 (C) 101.2 (D) 110.4 (E) 165.6

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