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PURE MATHS (MATH 162)

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QUESTIONS AND ANSWERS FOR QUICK REVISION

TEAM WROK HAS COMPLIED

PURE MATHS QUESTIONS AND ANSWERS BY TOPICS FOR YOU.

IF YOU HAVE ALREADY LEARNT, THIS IS THE RIGHT REVISION TOOL FOR YOU TO PASS.

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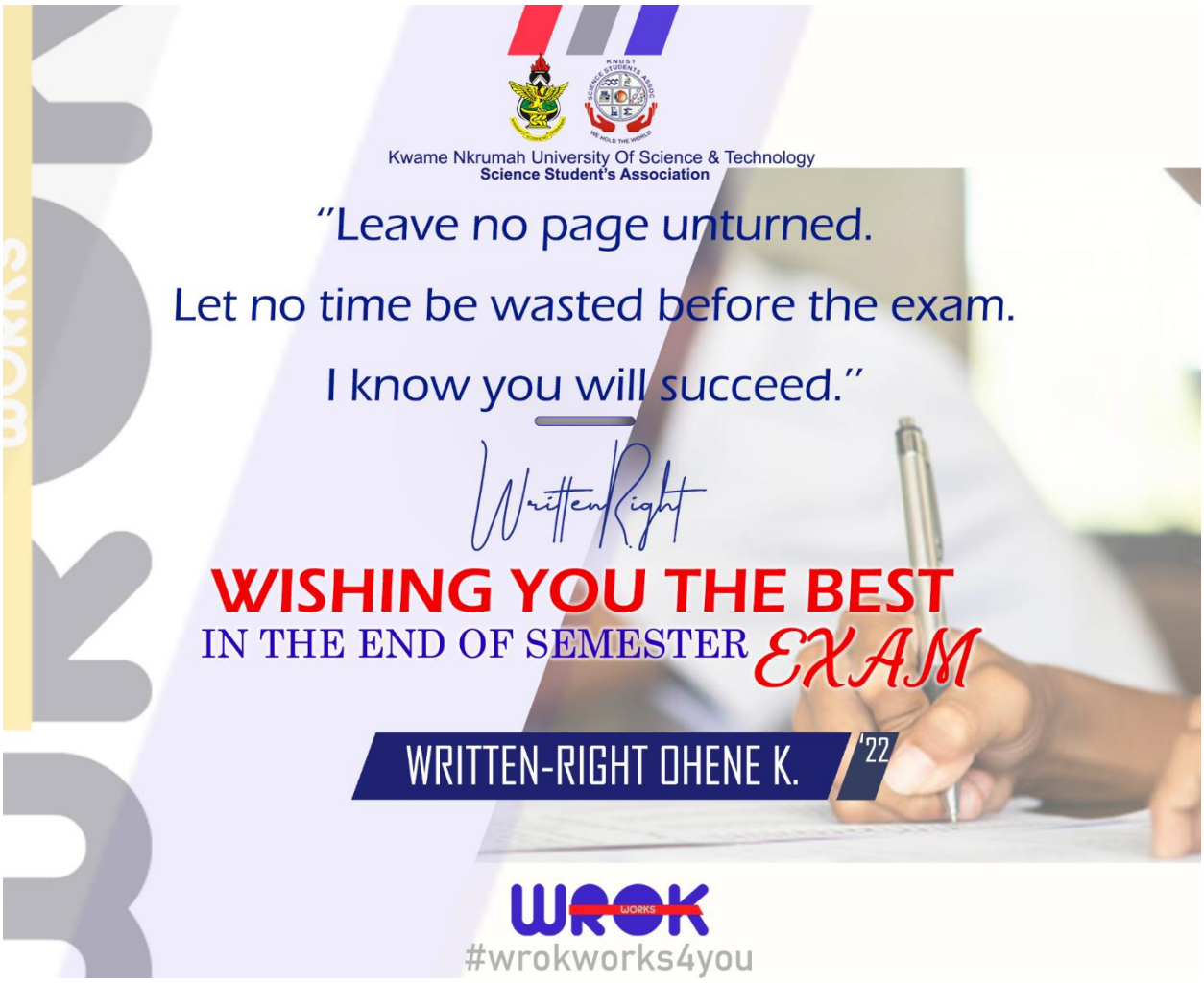


MCQs of CONICS

Let's begin with some most asked important MCs of Conic.

1. The line which is perpendicular to the tangent line is called?

A. derivative
B. limit
C. secant line
D. normal line

Answer - D

2. What is the eccentricity of an ellipse?

A. $0 < e < 1$
B. $e > 1$
C. $e < 1$
D. $e = 1$

Answer - A

3. What is the perpendicular distance from the point $(3,-4)$ to the line

$3\times2-4x+10=0$?

A. 6
B. 9
C. 7
D. 12

Answer - C

4. Which point of a parabola is closest to the focus is?

A. directrix
B. vertex
C. eccentricity

D. latus rectum

Answer - A

5. How many points in which the line y=mx+c intersects the circle x2+y2=a2?

A. 6
B. 2
C. 5
D. 4

Answer - B

6. What is the center of the circle of this equation 4×2+4y2-8x+12y-25=0?

A. (-2,3)
B. (2,-3)
C. (4,-6)
D. (-4,6)

Answer - C

7. What is the radius of the circle of this equation 4×2+4y2-8x+12y-25=0?

A. 7
B. 10
C. 12
D. None of these

Answer - D

8. What is the length of latus rectum If the distance between vertex and focus is 3?

A. 8
B. 12

C. 4
D. None of these

Answer - B

9. The discriminant of a conic is h2-ab=0, then it is called?
A. ellipse
B. hyperbola
C. parabola
D. circle

Answer - C

10. What is the focus of the parabola y2=-8(x-3)?
A. (1,0)
B. (0,0)
C. (1,1)
D. (0,1)

Answer - A

MCQs of Integral Equations

1. There is a continuous curve which does not have a point of self-intersection it is said as?
A. Integral curve
B. Multiple curves
C. Simple curve
D. None of these

Answer - Click Here: C

2. The simple curve is also called?
A. Jordan curve
B. Integral curve
C. Multiple curves
D. All of these

Answer - A

3. Wronskian stands for?
A. differentiation
B. determinant
C. integration
D. difference

Answer - B

4. Operational calculus is called as?
A. logical analysis
B. integration
C. operational analysis
D. operational amplification

Answer - C

5. There is a wrong skin in a set of solution and it represents?
A. combinations
B. integrations
C. superposition
D. linear independence

Answer - D

6. There is a mass in the mechanical system and it is analogs to the electrical system?
A. capacitance
B. wrok of Scisa
C. inductance
D. resistance

Answer - C

7. There is an integral curve along a simple closed curve is said to be?
A. Contour Integral
B. Multiple Integral
C. Jordan Integral
D. None of these

Answer - A

8. There is a region which is not simply connected simply is called?
A. Jordan connected
B. Connected curve
C. Multi-connected
D. Multiple curves

Answer - C

9. If there is a principal part contains an infinite number of non zero terms then it is known as?
A. Removable Singularity
B. Essential Singularity
C. Isolated Singularity
D. Pole

Answer - B

10. It is a technique in particular differential equations are transformed into algebraic problems is called?
A. integral
B. static calculus
C. operational calculus
D. dynamic calculus

Answer - C

GEOMETRY

1. The midpoint of the line joining two points (36, 6) and (16, 4) are:
A. (1, 10)
B. (5, 26)
C. (10, 1)
D. (26, 5)
E. None of These

Answer - D

2. A line segment is formed by joining
A. more than three points
B. two points
C. four points
D. three points
E. None of These

Answer - B

3. Which of the following is an obtuse angle?
A. 8/20 of a complete rotation
B. 11/21 of a right angle
C. 8/20 of a right angle
D. 11/21 of a complete rotation
E. None of These

Answer - A

4. _____ angle is less than 90°
A. obtuse angle
B. right angle
C. acute angle
D. reflex angle
E. None of These

Answer - C

5. Which of the following two angles are classified as complementary?
A. 65° and 25°
B. 70° and 30°
C. 120° and 60°
D. 50° and 30°
E. None of These

Answer - A

6. Opposite vertical angles are also _____
A. scalene
B. equal
C. not equal
D. opposite
E. None of These

Answer - B

7. ____ are created when two lines make an angle.
A. vertex
B. scalene
C. segment
D. rays
E. None of These

Answer - D

8. Surface area of a hollow cylinder with, radius and height is measured by
A. $2\pi rh$
B. πrh
C. $2\pi r + h$
D. $2\pi r - h$
E. None of These

Answer - A

9. _____ polygon has 10 sides.
A. heptagon
B. decagon
C. hexagon
D. quadrilateral
E. None of These

Answer - B

10. _____ polygon has 8 sides.
A. nonagon
B. hexagon
C. octagon

D. decagon
E. None of These

Answer - C

11. Two rays meet each other at a certain point then the _____
A. line is formed
B. angle is formed
C. line segment is formed
D. all of the above
E. None of These

Answer - B

12. The sum must be equal to _____ when two angles are classified as complementary angles.
A. 360°
B. 180°
C. 120°
D. 90°
E. None of These

Answer - D

13. A _____ is a path described by any moving point.
A. rays
B. ordinate ray
C. line
D. line segment
E. None of These

Answer - C

14. Sum of adjacent angles is equal to _____ on a line.
A. 180°
B. 90°

C. 120°
D. 140°
E. None of These

Answer - A

15. Angles that have a common side and a common vertex on a line are classified as
A. complementary angles
B. vertically opposite angles
C. supplementary angles
D. adjacent angles
E. None of These

Answer - D

16. _____ has no equal angles and no equal sides.
A. right angle
B. isosceles triangle
C. equilateral triangle
D. scalene triangle
E. None of These

Answer - D

17. The perimeter of a rectangle is measured by (with base 'b' and height 'h')
A. 2(h + b)
B. 2 × b / h
C. 2(h – b)
D. 2(b – h)
E. None of These

Answer - A

18. Area of a rectangle is measured by (with base 'b' and height 'h')
A. b + h
B. b × h
C. h / b
D. b / h
E. None of These

Answer - B

19. _____ goes through midpoint from one side of a circle to the other side of a circle.
A. area
B. angle
C. diameter
D. radius
E. None of These

Answer - C

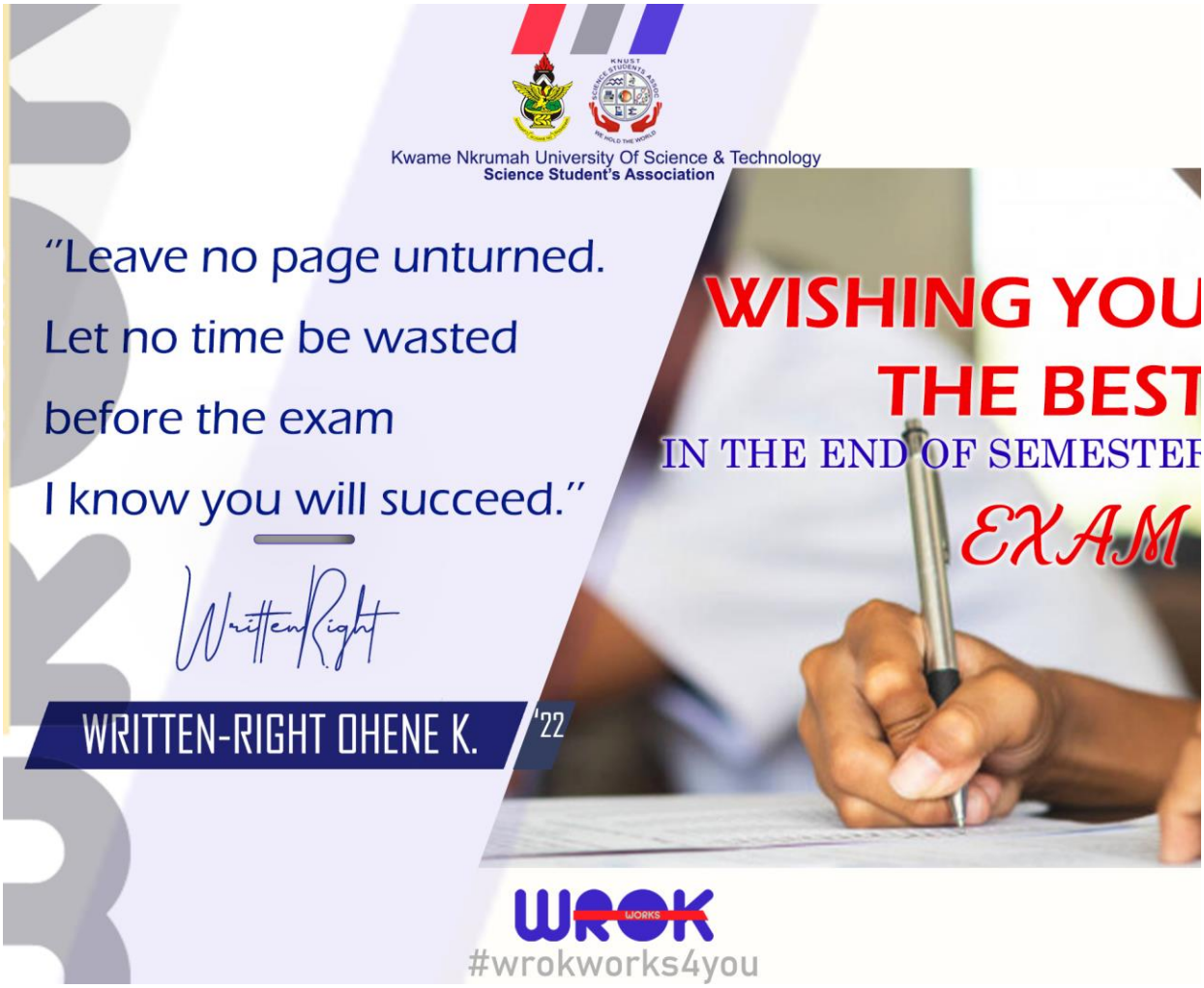
20. Polygon's exterior angles sum up to _____
A. 360°
B. 270°
C. 180°
D. 90°
E. None of These

Answer - A

REFERENCE

Prof.Fazal Rehman Shamil (Available for Professional Discussions)
1. Message on Facebook page for discussions

2. Video lectures on Youtube
T4Tutorialsfree@gmail.com [Facebook](#) [Youtube](#)



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