

Name: Nithaleem H. Sec: D, E, F Roll No: —

1. Choose the letter with the best answer from the given alternatives below.

- C 1. Which one of the following quantities is scalar? A. SKM East B. Force C. SKM D. None
- C 2. What is the norm of $\vec{u}$, if $\vec{u} = (\frac{\sqrt{3}}{2}, \frac{1}{2})$? A. 3 B. 2 C. 1 D. 4
- C 3. What is the dot product of $\vec{a} = 5\vec{i}$ and $\vec{b} = 3\vec{i} + 3\vec{j}$, if $\vec{b}$ is on the line $y = x$?
A. $15\frac{\sqrt{6}}{2}$ B. $15\frac{\sqrt{3}}{2}$ C. 15 D. $15\sqrt{6}$
- A 4. Which one of the following is the angle b/n vectors, if $\vec{u} \cdot \vec{v} = 4$, $|\vec{u}| = 2$, $|\vec{v}| = 4$?
A. $\frac{\pi}{3}$ B. $\frac{\pi}{2}$ C. π D. $\frac{\pi}{6}$
- F 5. The cosine angle between $\vec{U} = \vec{i} + \sqrt{8}\vec{j}$ and $\vec{V} = \vec{i} - \sqrt{8}\vec{j}$ is A. $\frac{9}{10}$ B. $\frac{-7}{9}$ C. -8 D. -9
- F 6. If $\vec{U} = (1, 2)$ and $\vec{V} = (3, 4)$ what is the unit vector in the direction of $\vec{U} + \vec{V}$?
A. $\frac{2}{5}\vec{i} + \frac{4}{5}\vec{j}$ B. $\frac{2\sqrt{13}}{13}\vec{i} + \frac{3\sqrt{13}}{13}\vec{j}$ C. $\frac{-\sqrt{2}}{2}\vec{i} - \frac{-\sqrt{2}}{2}\vec{j}$ D. None
- D 7. Which one is not correctly matched about two vectors?
A. $\vec{U} = (4, 6)$ and $\vec{V} = (-3, 2)$ are orthogonal C. $\vec{U} = (2, 6)$ and $\vec{V} = (-3, -9)$ are parallel.
B. $\vec{U} = (-1, \frac{1}{2})$ and $\vec{V} = (3, 6)$ are orthogonal D. None
- A 8. What is the Area of the Triangle defined by the vectors $\vec{U} = 2\vec{i} + 3\vec{j} + \vec{k}$ and $4\vec{i} + \vec{j} + 2\vec{k}$?
A. $\frac{5\sqrt{3}}{2}$ B. $5\sqrt{3}$ C. $10\sqrt{3}$ D. $20\sqrt{3}$
- C 9. A constant force of 80N is applied at an angle of 30° to pull a hand cart of 10m across the ground. What is the work done by this Force?
A. $400\sqrt{2}$ J B. $300\sqrt{3}$ J C. $400\sqrt{3}$ J D. $300\sqrt{2}$ J
- 10 The equation of the line tangent to the circle $x^2 + y^2 + x - y = 7$ at point $(-1, 4)$ is
A. $5x - 11y - 7 = 0$ B. $-2x + 14y - 23 = 0$ C. $-12x - 5y + 14 = 0$ D. $x + y - 12 = 0$
E. $-x + 7y - 14 = 0$
- C 11. Which of the following is qualitative data?
A. The speed of cars C. Ethnicity
B. The height of children D. The number of workers
- C 12. If the mode of seven numbers a, b, 2, 3, 8, 8, 9 is 9, then the median of the seven number is
A. 6 B. 7 C. 8 D. 9
- C 13. What is the definition of Range?
A. The highest number of the data set
B. Distance of a data point away from the mean.
C. The distance between the maximum and minimum of a data set.
D. The lowest number of data set.
- D 14. The _____ is the class interval with highest frequency.
A. Median class B. Quartile class C. Decile class D. Modal class
- A 15. Hawi scored a 76th percentile on a mathematics exam. How does her score stand in relation to the others?
A. It means that she scored better than 76% of all the test takers
B. It means that 24% scored the same or lower than her
C. She surpassed 24% of all the test takers D. She got the highest score
- F 16. Which of the following is different from the other?
A. 50th percentile B. 3rd quartile C. 5th decile D. Median
- B 17. If a distribution has two mode, it is called _____

$x^2 + y^2 + x - y = 7$ at pt $(-1, 4)$
 $\Rightarrow x^2 + x + y^2 - y = 7$
 $\Rightarrow x^2 + x + \frac{1}{4} + y^2 - y + \frac{1}{4} = 7 + \frac{1}{2}$
 $\Rightarrow (x + \frac{1}{2})^2 + (y - \frac{1}{2})^2 = \frac{15}{2}$
 Centre $(-\frac{1}{2}, \frac{1}{2})$

$\Rightarrow ((-\frac{1}{2}, \frac{1}{2}))$ centre $\rightarrow ((x_0, y_0))$
 $P(x_0, y_0) = (-1, 4)$
 Eqn of tangent line to the circle
 $(x - x_0)(x_0 - x_0) + (y - y_0)(y_0 - y_0) = r^2$
 $\Rightarrow (x - (-\frac{1}{2}))(-1 - (-\frac{1}{2})) + (y - \frac{1}{2})(4 - \frac{1}{2}) = \frac{15}{2}$
 $\Rightarrow (x + \frac{1}{2})(-\frac{1}{2}) + (y - \frac{1}{2})(\frac{7}{2}) = \frac{15}{2}$

$\Rightarrow -\frac{1}{2}x - \frac{1}{4} + \frac{7}{2}y - \frac{7}{4} = \frac{15}{2}$
 $\Rightarrow -2x - 1 + 14y - 7 = 30$
 $\Rightarrow -2x + 14y - 8 = 30$
 $\Rightarrow -2x + 14y - 38 = 0$
 $\Rightarrow -x + 7y - 19 = 0$

Grade 11 Mathematics Final Exam 2014

Wolfgang Guggemos



Grade 11 Mathematics Final Exam 2014:

This book delves into Grade 11 Mathematics Final Exam 2014. Grade 11 Mathematics Final Exam 2014 is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Grade 11 Mathematics Final Exam 2014, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 5: Conclusion
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