

MTH105

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1. The mathematical techniques for finding the optimum mix of products with limited resources is called?

--->> Linear programming

Minimization programming

Maximization programming

Optimal programming

2. To obtain the determinant of a matrix, one of the following must be satisfied

The adjoint must exist

The inverse must exist

Must be a symmetry matrix

--->> Must be a square matrix

3. If the conjunction of the premises implies the conclusion, then the argument is?

Tautology

Invalid

Contradiction

--->> Valid

4. Find the area bounded by the parabola $(y=8+2x-x^2)$ and the x-axis.

16 square units

63 square units

--->> 36 square units

61 square units

5. Which of the following is not a type of vectors

Free vector

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--->> Angular vector

Position vector

6. The cosines of the angles between the vector and the axes is called?

Vector cosines

--->> Direction Cosines

Cosines angle

Axes angle

7. Determine the sum of vectors $\|\bar{CD}\| + \|\bar{DA}\|$

--->> $\|\bar{CA}\|$

$\|\bar{DD}\|$

$\|\bar{AC}\|$

$\|\bar{CD}\|$

8. Obtain the equation of the line through (2, -4) and perpendicular to the line $\|(5x+3y-8=0\|$

$\|(5x-3y+26=0\|$

$\|(5x-3y-26=0\|$

$\|(3x+5y+26=0\|$

--->> $\|(3x-5y-26=0\|$

9. Determine the vector product $\|(i \times j)\|$

--->> $\|(0\|$

$\|(-i\|$

$\|(j\|$

$\|(k\|$

10. When premises are conjuncted to give another statement then $\neg(A \wedge B) \rightarrow A \vee \neg B$ is

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Tautology

--->> Argument

Contradiction

Valid

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