ONTARIO PRINCIPLES OF MATHEMATICS, GRADE 10, ACADEMIC (MPM2D) · UNIT C · 10 QUESTIONS

Analytic Geometry — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The most specific name for the quadrilateral with vertices (0, 0), (4, 0), (4, 4) and (0, 4) is**

- A a square
- B a rectangle
- C a rhombus
- D a kite

Understand It with Pulse | Flag a mistake

2 **The slope of a line perpendicular to a line of slope 2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **The segment AB is shown on a coordinate grid. The length of AB is**

ANSWER _____

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4 **The segment AB is shown on a coordinate grid. The slope of AB is**

A 2

B -2

C $\frac{1}{2}$

D 3

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5 The segment AB is shown on a coordinate grid, with its midpoint marked M. The coordinates of M are

- **A** (2, 4)
- **B** (3, 2)
- **C** (2, 3)
- **D** (4, 3)

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6 The slope of a line parallel to a line of slope 3 is

ANSWER _____

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7 Triangle ABC is shown. The length of the median to the side joining (0, 0) and (6, 0) is

ANSWER _____

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8 **Triangle ABC with vertices (0, 0), (3, 0) and (0, 4) is shown. The most specific name for triangle ABC is**

A a right triangle

B an equilateral triangle

C an isosceles triangle

D an obtuse triangle

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9 **The most specific name for the quadrilateral with vertices (0, 0), (5, 0), (7, 3) and (2, 3) is**

A a rectangle

B a parallelogram

C a square

D a kite

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10 **The slope of a line perpendicular to a line of slope -4 is**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. -0.5
3. 10
4. A
5. C
6. 3
7. 4
8. A
9. B
10. 0.25

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