PRINCE EDWARD ISLAND FOUNDATIONS OF MATHEMATICS 11 · UNIT E

Quadratic Functions and Proportional Reasoning — Practice Test

Prince Edward Island Foundations of Mathematics 11 • 10 questions

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 **y varies directly with x , and y = 15 when x = 3 . What is the constant of variation**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **y varies inversely with x , with constant 30 . What is y when x = 5**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A parabola that opens downward has a**

- A maximum value
- B minimum value
- C no vertex
- D constant value

Understand It with Pulse | Flag a mistake

4 **A parabola that opens upward has a**

- A maximum value
- B no vertex
- C constant value
- D minimum value

Understand It with Pulse | Flag a mistake

5 **A quadratic function with a negative leading coefficient opens**

A downward

B upward

C to the left

D to the right

Understand It with Pulse | Flag a mistake

6 **A quadratic function with a positive leading coefficient opens**

A downward

B to the left

C to the right

D upward

Understand It with Pulse | Flag a mistake

7 **y varies directly with x , and y = 24 when x = 6 . What is the constant of variation**

ANSWER

Understand It with Pulse | Flag a mistake

8 **y varies inversely with x , with constant 24 . What is y when x = 6**

ANSWER

Understand It with Pulse | Flag a mistake

9 **y varies directly with x , and y = 12 when x = 2 . What is the constant of variation**

ANSWER

Understand It with Pulse | Flag a mistake

10 **y varies inversely with x , with constant 18 . What is y when x = 2**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	5	**5.**	A	**9.**	6
2.	6.00	**6.**	D	**10.**	9.00
3.	A	**7.**	4		
4.	D	**8.**	4.00		

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