ONTARIO FUNCTIONS, GRADE 11, UNIVERSITY PREPARATION (MCR3U) · UNIT A · 10 QUESTIONS

Characteristics of Functions — 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 **A function is defined by f(x) = 3x + 1 for all real x. The value of f(5) is**

- A 16
- B 17
- C 15
- D 19

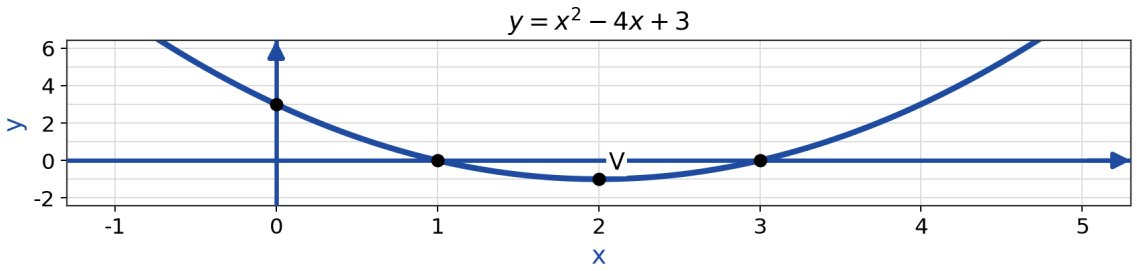
Understand It with Pulse | Flag a mistake

2 **A function is defined by f(x) = 4x + 2 for all real x. The value of f(6) is**

- A 27
- B 25
- C 30
- D 26

Understand It with Pulse | Flag a mistake

3 **The graph shows a parabola with its vertex marked V. The coordinates of V are Figure 1**



A (-2, -1)

B (2, -1)

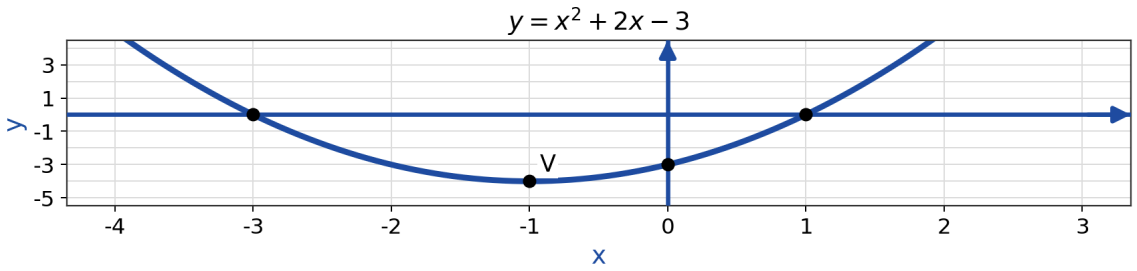
C (2, 1)

D (3, -1)

Understand It with Pulse

Flag a mistake

4 **The graph shows a parabola with its vertex marked V. The coordinates of V are Figure 2**



A (1, -4)

B (-1, -4)

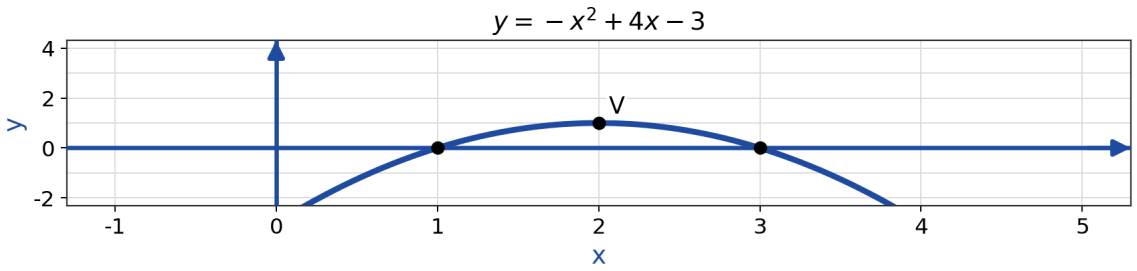
C (-1, 4)

D (0, -4)

Understand It with Pulse

Flag a mistake

5 **The graph shows a parabola with its vertex marked V. The coordinates of V are Figure 3**



A (-2, 1)

B (2, 1)

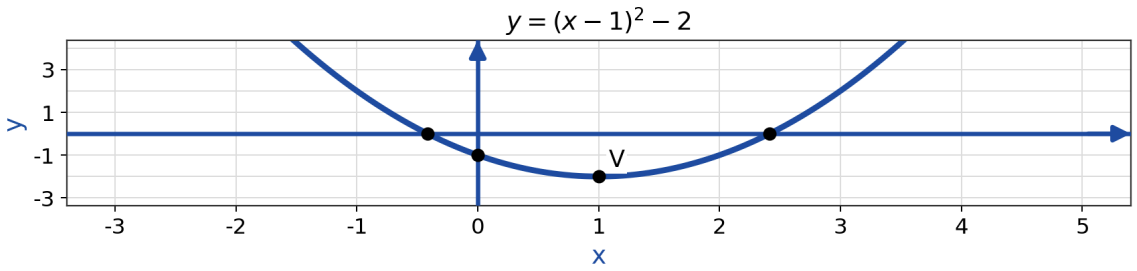
C (2, -1)

D (3, 1)

Understand It with Pulse

Flag a mistake

6 **The graph shows a parabola with its vertex marked V. The coordinates of V are Figure 4**



A (-1, -2)

B (1, -2)

C (1, 2)

D (2, -2)

Understand It with Pulse | Flag a mistake

7 **The minimum or maximum value of y = 2(x - 1)² + 5 is**

A 7

B 3

C -5

D 5

Understand It with Pulse | Flag a mistake

8 The minimum or maximum value of $y = -3(x - 1)^2 + 4$ is

- A 4
- B 6
- C 2
- D -4

Understand It with Pulse | Flag a mistake

9 The minimum or maximum value of $y = 4(x - 1)^2 + -2$ is

- A 0
- B -4
- C 2
- D -2

Understand It with Pulse | Flag a mistake

10 **The minimum or maximum value of $y = -2(x - 1)^2 + -3$ is**

A -1

B -5

C 3

D -3

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. D
3. B
4. B
5. B
6. B
7. D
8. A
9. D
10. D

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