ONTARIO FUNCTIONS AND APPLICATIONS, GRADE 11, UNIVERSITY/COLLEGE PREPARATION (MCF3M) · UNIT B · 10 QUESTIONS

Exponential Functions — Practice Test

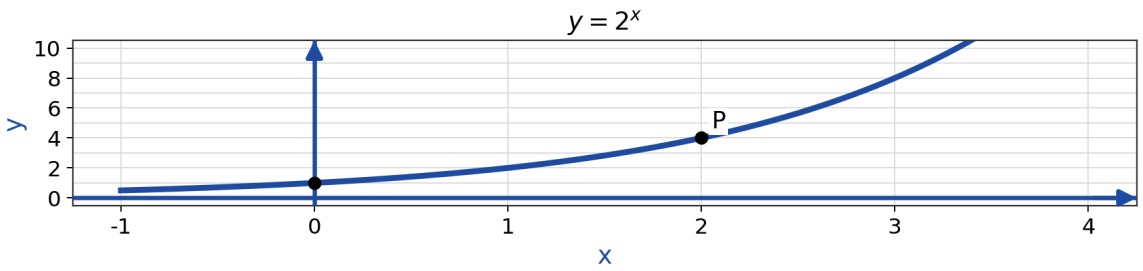
This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **The function $y = 5(2^x)$ has y intercept**

- **A** 5
- **B** 10
- **C** 0
- **D** 6

Understand It with Pulse | Flag a mistake

2 **The graph shows the growth of a population in thousands. The value at the marked point is Figure 1**



A 8

B 5

C 4

D 2

Understand It with Pulse | Flag a mistake

3 **Simple interest: 1000 dollars is invested for reference only. An amount of 500 dollars at 5 percent simple interest for 2 years earns interest, in dollars, of**

- A 25
- B 100
- C 50
- D 75

Understand It with Pulse | Flag a mistake

4 **A car worth 2000 dollars loses 10 percent of its value each year. Its value after 1 year, in dollars, is**

- A 1800
- B 1600
- C 2200
- D 1990

Understand It with Pulse | Flag a mistake

5 How many years will it take for an amount to grow by a factor of 64 if it doubles each year? The number of years is

- A 7
- B 5
- C 64
- D 6

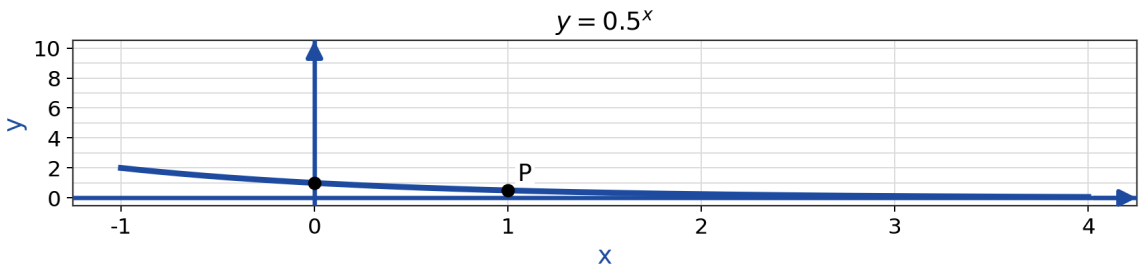
Understand It with Pulse | Flag a mistake

6 The function $y = 2(2^x)$ has y intercept

- A 4
- B 2
- C 0
- D 3

Understand It with Pulse | Flag a mistake

7 **The graph shows the growth of a population in thousands. The value at the marked point is Figure 2**



A 1

B 1.5

C 0.5

D 0.25

Understand It with Pulse | Flag a mistake

8 **Simple interest: 1000 dollars is invested for reference only. An amount of 4000 dollars at 5 percent simple interest for 2 years earns interest, in dollars, of**

- A 200
- B 400
- C 800
- D 600

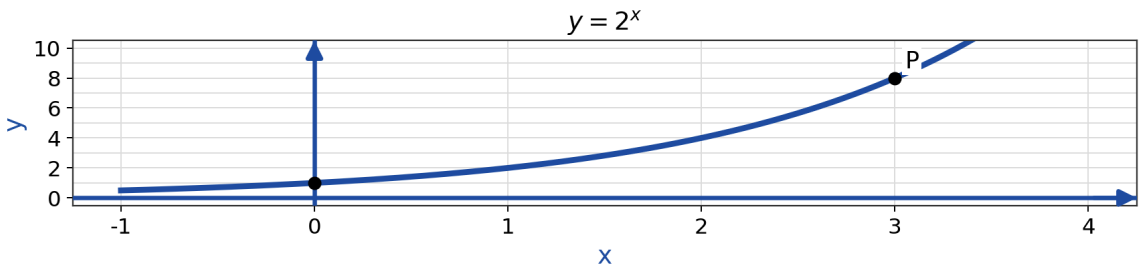
Understand It with Pulse | Flag a mistake

9 **The function $y = 4(2^x)$ has y intercept**

- A 8
- B 0
- C 5
- D 4

Understand It with Pulse | Flag a mistake

10 **The graph shows the growth of a population in thousands. The value at the marked point is Figure 3**



A 16

B 9

C 8

D 4

Understand It with Pulse

Flag a mistake

ANSWER KEY

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

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