ONTARIO ADVANCED FUNCTIONS, GRADE 12, UNIVERSITY PREPARATION (MHF4U) · UNIT B · 10 QUESTIONS

Exponential and Logarithmic 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 **An amount grows as $A(t) = 100(2)^t$ The value when t = 3 is**

- A 300
- B 800
- C 400
- D 900

Understand It with Pulse | Flag a mistake

2 **An amount grows as $A(t) = 100(2)^t$ The value when t = 4 is**

- A 400
- B 800
- C 1600
- D 1700

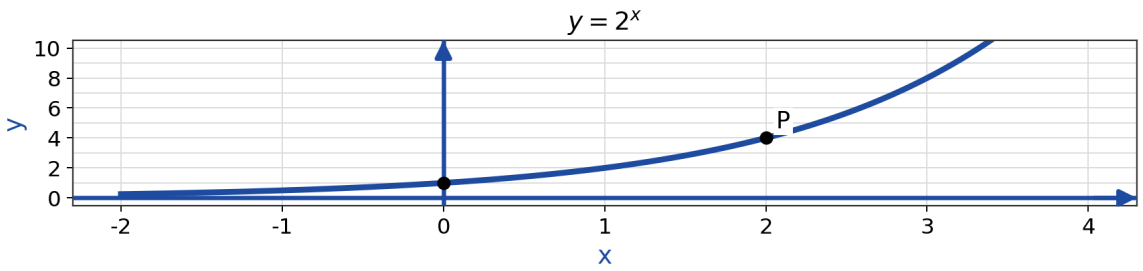
Understand It with Pulse | Flag a mistake

3 **An amount grows as $A(t) = 100(2)^t$ The value when t = 5 is**

- A 500
- B 1600
- C 3300
- D 3200

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4 **The graph shows an exponential or logarithmic function. The value at the marked point is Figure 1**



A 8

B 4

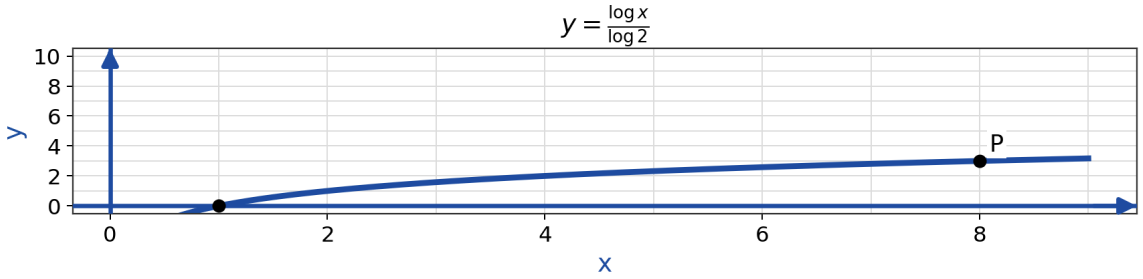
C 5

D 3

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5 **The graph shows an exponential or logarithmic function. The value at the marked point is Figure 2**



A 6

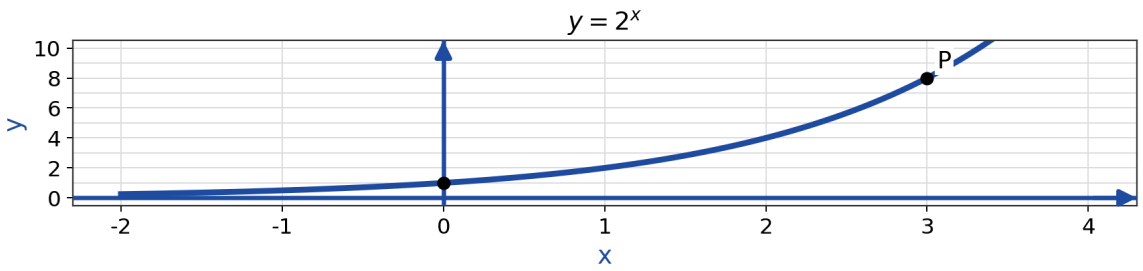
B 3

C 4

D 2

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6 **The graph shows an exponential or logarithmic function. The value at the marked point is Figure 3**



A 16

B 8

C 9

D 7

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7 **The half life model $A(t) = 100(0.5)^{t/10}$ gives, after 20 units of time, an amount of**

- A 50
- B 75
- C 12
- D 25

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8 **The half life model $A(t) = 100(0.5)^{t/20}$ gives, after 40 units of time, an amount of**

- A 50
- B 75
- C 25
- D 12

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9 **The half life model $A(t) = 100(0.5)^{t/30}$ gives, after 60 units of time, an amount of**

A 50

B 25

C 75

D 12

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10 **The half life model $A(t) = 100(0.5)^{t/40}$ gives, after 80 units of time, an amount of**

A 25

B 50

C 75

D 12

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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