

IB Math SL 1 Spring 2013 Practice Questions

The following problems are very similar in form to those on your final exam. Please note that these practice questions cover only a subset of what you are expected to know; however, this can be a very useful study aid.

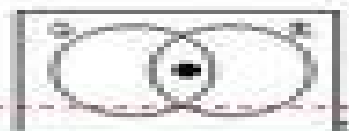
1. Determine $P(P)$.

- ☒ $\frac{1}{2}$
☐ $\frac{1}{3}$
☐ $\frac{2}{3}$
☐ $\frac{1}{4}$



2. What is the best way to describe the region with the dot?

- ☐ $(Q \cap U)$
☐ $(Q \cap U)^c$
☐ $Q \cup U$
☒ $Q \cap U^c$



3. What is the derivative of the function $y = x^{27}$?

- ☒ $\frac{dy}{dx} = 27x^{26}$ ☐ $\frac{dy}{dx} = x^{26}$ ☐ $\frac{dy}{dx} = 27x^{27}$ ☐ $\frac{dy}{dx} = 10x^{27}$

4. If $f(x) = \sin(x)$ what is $f'(2)$?

- ☐ $\sin(2)$ ☒ $\frac{1}{\sin(2)}$ ☐ $\sin(2)$ ☐ $\frac{1}{\sin(2)}$

5. What is the derivative of the function $f(x) = \cos(x)$?

- ☐ $f'(x) = \sin(x)$ ☐ $f'(x) = \cos(x)$
☒ $f'(x) = -\sin(x)$ ☐ $f'(x) = -\cos(x)$

6. Suppose the loan $P(4) = 10\%$, $P(8) = 2\%$, and $P(4) \cap P(8) = 4\%$. What is $P(A \cap B)$?

- ☐ $\frac{1}{2}$ ☐ $\frac{1}{4}$ ☒ $\frac{1}{8}$ ☐ $\frac{3}{4}$

7. Tammy analyzed a quadratic function correctly and created the partial difference table below:

x	y
$y = 6x^2 - 3x + 4$	4
x_1	a
x_2	b

x	y
$y = 6x^2 - 3x + 4$	4
x_1	-2
x_2	12

- What is the specific equation of this function?

- ☐ $y = 6x^2 - 3x + 4$ ☐ $y = 6x^2 - 6x + 4$ ☐ $y = 12x^2 - 3x + 4$ ☒ $y = 6x^2 - 6x + 4$

8. The n^{th} term of an arithmetic sequence is given by $a_n = 2 + 2n$. Given that the n^{th} term of this sequence is 110, find the value of n .

- ☐ 100 ☐ 110 ☒ 109 ☐ 24

9. Determine the slope of the secant line to the curve $y = \sin(2x)$ at two points very close to the point $(3, \sin(2(3)))$.

- ☐ 1.00 ☒ 0.009 ☐ 0.024 ☐ 0.009

2013 Ib Math Sl Exam Answer Key

**Paul Fannon, Vesna Kadelburg, Ben
Woolley, Stephen Ward**



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