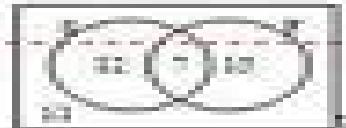


## IB Maths SL 1. Spurting 2013 Practice Questions

The following problems are freely adapted from the IB Maths SL past paper exams. Please note that these practice questions are not a subset of what you are expected to know. However, this can be a very useful study aid.

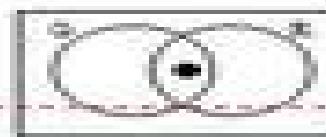
1. Evaluate  $\int_{-1}^1 x^2 dx$

a.  $\frac{2}{3}$   
 b. 1  
 c.  $-\frac{2}{3}$   
 d.  $-\frac{1}{3}$



2. What is the necessary to evaluate the region with the slot?

a.  $\int_0^1 \pi x^2 dx$   
 b.  $\int_0^1 \pi (x-1)^2 dx$   
 c.  $\int_0^1 \pi (x-2)^2 dx$   
 d.  $\int_0^1 \pi (x-3)^2 dx$



3. What is the derivative of the function  $y = x^{1/3}$ ?

a.  $\frac{1}{3}x^{-2/3}$   
 b.  $\frac{1}{3}x^{-1/3}$   
 c.  $\frac{1}{3}x^{2/3}$   
 d.  $\frac{1}{3}x^{1/3}$

4. If  $f'(x) = 3x^2$  when is  $f''(x) = 0$ ?

a. 0 and 3  
 b. 0 and -3  
 c. 3 and -3  
 d.  $\frac{3}{2}$  and  $-\frac{3}{2}$



a. 3 and -3  
 b. 0 and 3  
 c. 0 and -3  
 d.  $\frac{3}{2}$  and  $-\frac{3}{2}$



5. What is the derivative of the function  $f(x) = \cos(3x) +$

a.  $f'(x) = -3\sin(3x)$   
 b.  $f'(x) = \cos(3x)$   
 c.  $f'(x) = -\sin(3x)$   
 d.  $f'(x) = -\cos(3x)$

6. Suppose we know  $P(A|B) = 0.75$ ,  $P(B) = 0.75$ , and  $P(A \cap B) = 0.75$ . What is  $P(A \cup B)$ ?

a. 1  
 b. 0.5  
 c.  $\frac{1}{2}$   
 d. 0.25

7. The graph of a quantity  $y$  function is shown. Identify and graph the point of inflection below.



What is the equation of this function?

a.  $y = -3x^3 + 3x + 4$   
 b.  $y = -3x^2 + 3x + 4$   
 c.  $y = 3x^3 - 3x + 4$   
 d.  $y = 3x^2 - 3x + 4$

8. The  $n^{th}$  term of the arithmetic sequence is given by  $a_n = 2n + 3n$ . Given that the  $10^{th}$  term of this sequence is 110, find the value of  $n$ .

a. 2011  
 b. 1000  
 c. 10000  
 d. 24

9. Determine the slope of the tangent line to the curve  $y = \ln(x^2 + 7)$  at two points very close to the point  $(3, \ln(26))$ .

a. 2.000  
 b. 0.00000  
 c. 0.00001  
 d. 0.00002

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

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