Internal Assessment

Mathematics: analysis and approaches

Sample IA Template Demonstration

Word Count: 0000

IB Candidate Code: 123ABC

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1 Demonstration Section

1.1 Text and Notes

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note:⟨**This is a sample note for drafting comments**⟩

1.2 Equation Example

$$\int_0^{\pi} \sin x \, \mathrm{d}\, x = 2 \tag{1}$$

1.3 Table Example

Table 1: Sample Data

x	y	z
1	2	3
2	4	6
3	6	9

1.4 Figure Example

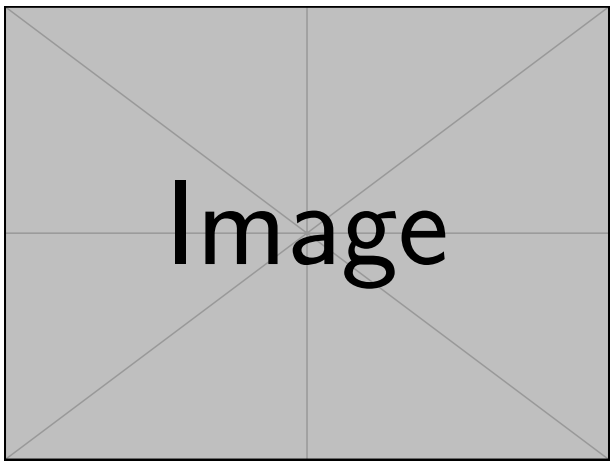


Figure 1: Sample Image

1.5 Code Example

```python
def fibonacci(n):
    if n <= 1:
        return n
    return fibonacci(n-1) + fibonacci(n-2)

print(fibonacci(10))
```

```
% euler's method
for t = 1:steps
    S = y(t,1); E = y(t,2); I = y(t,3); R = y(t,4); D = y(t
       ,5);

    dS = -beta * S * I;
    dE = beta * S * I - sigma * E;
    dI = sigma * E - gamma * I - mu * I;
    dR = gamma * I;
    dD = mu * I;
```

```
10
11      y(t+1,:) = y(t,:) + dt * [dS, dE, dI, dR, dD];
12  end
```

1.6 Algorithm Example

Algorithm 1: Sample Algorithm

```
Initialize x = 0;
for i = 1 to 10 do
    x = x + i;
return x;
```

A Appendix Example

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