LaTeX Template

Avigyan Chakraborty

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> Is it that you're being good to-get-her, or that you think you're good together?
>
> Me (inspired by "Good Together" — Shy Martin)

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This is the color of the default **bold text**.

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This is a Definition.

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[a] This is footnote for this remark.

§2 Other Environments

Col1	Col2	Col3
1	2	3

Table 1: This is a table

(a) First.

(b) Second.

- First.
- Second.

Figure 1: Cool Gojo 4K Wallpaper

§3 Math Environments

$$\begin{aligned} x^2 &= \frac{2x^2}{2} \\ &= \frac{(x+1)^2 + (x-1)^2 - 2}{2}. \end{aligned}$$

$$f(x) = \begin{cases} 0, & \text{if } x \text{ is rational} \\ 1, & \text{otherwise.} \end{cases}$$

$$g(x) = \begin{cases} 0, & \text{if } x \text{ is irrational} \\ \frac{1}{q}, & \text{if } x = \frac{p}{q} \text{ where } p, q \text{ are integers with } \gcd(p,q) = 1. \end{cases}.$$

$$\sin \cos \tan \operatorname{cosec} \sec \cot \arcsin \arccos \arctan \operatorname{arccsc} \operatorname{arcsec} \operatorname{arccot}.$$

$$\nu_p(p^2) = 2 \text{ and } \operatorname{Pow}_{\odot(ABC)}(A) = 0 \text{ and } \operatorname{ord}_p((p-1)!) = 2.$$

$$\iint\limits_{x^2+y^2 \leq 1} (x+y) \mathrm{d}x \mathrm{d}y = 0.$$

$$\int_0^1 \ln(x) = -1.$$

$$\frac{\mathrm{d}^n f}{\mathrm{d}x^n} \frac{\partial^n f}{\partial x^n}.$$

§4 CS and ASY Environments

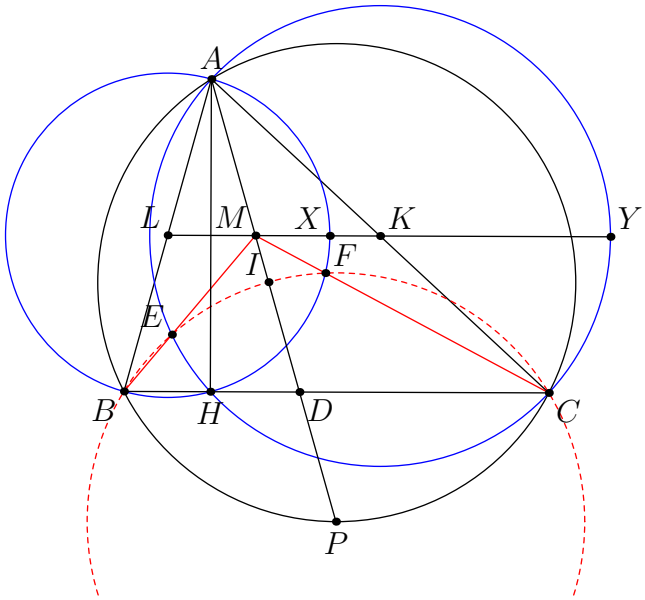

Figure 2: An asy diagram

```python
import numpy as np

def incmatrix(genl1,genl2):
    m = len(genl1)
    n = len(genl2)
    M = None #to become the incidence matrix
    VT = np.zeros((n*m,1), int)  #dummy variable

    #compute the bitwise xor matrix
    M1 = bitxormatrix(genl1)
    M2 = np.triu(bitxormatrix(genl2),1)

    for i in range(m-1):
        for j in range(i+1, m):
            [r,c] = np.where(M2 == M1[i,j])
            for k in range(len(r)):
                VT[(i)*n + r[k]] = 1;
                VT[(i)*n + c[k]] = 1;
                VT[(j)*n + r[k]] = 1;
                VT[(j)*n + c[k]] = 1;

                if M is None:
                    M = np.copy(VT)
                else:
                    M = np.concatenate((M, VT), 1)
```

```
26
27                  VT = np.zeros((n*m,1), int)
28
29      return M
```

§5 Hints

1. First hint.
2. Second hint.
3. First hint.

§6 Bibliography

Random text for citing some document in my LaTeX file [Knu97].

References

[Knu97] Donald E. Knuth. *The Art of Computer Programming*. Addison-Wesley, 1997 (cited p. 9)