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1. First Section

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Here is proof that forward referencing works. [Figure 2.1.1](#) shows an old monument in Bharathi Park, Pondicherry.

1.1. Pythagoram Theorem

This theorem states that given a triangle with sides a , b , and $c \Rightarrow a^2 + b^2 = c^2$

2. Second Section

Here, we take a look at indentation^[1]

2.1. Subsection

- Bullet point 1
- Bullet point 2

$$f(x) = 5x + 3 \quad (2.1.1)$$

$$e^{(i)\theta} = 1 + e^{(i)\theta} + \frac{1}{2!} (i\theta)^2 \dots \quad (2.1.2)$$

$$+ \frac{1}{N-1} (i\theta)^{N-1} + \frac{1}{N} (i\theta)^N$$

$$K_e = \int_{T_e} K \begin{bmatrix} (c_1^k)^2 & x_k & y_k \\ (c_1^l)^2 & x_l & y_l \\ (c_1^m)^2 & x_m & y_m \end{bmatrix} d\Omega \quad (2.1.3)$$

```
def myfunction(arg):  
    arg = arg**2 - arg + 1  
    return int(arg)
```



Figure 2.1.1 *This is a nice caption*



This logo won't have a figure number



Figure 2.1.2

3. Last Section

In this section, we will look at tables and PDF links.^[2]

3.1. Links using .pdfhref

3.1.1. Internet Hyperlinks

Here is an internet hyperlink to [the Groff Manual](#) where you can find documentation for groff. [Youtube](#) is a great website for informational videos

3.1.2. PDF links

[Affixed text to Equation \(2.1.1\)](#) is the first equation

[Fig\(2.1.2\)](#) is the MSI logo

[Table\(3.2.1\)](#) contains the specs for carburetors found in Yamaha DT 125 motorcycle.

Notice that this does forward referencing.

3.2. Table example

Yamaha DT 125 Carburetor Specifications			
Bike Model	TZR	DT 3DBI	DT 3RN1 onward
Make	Mikuni	Mikuni	Mikuni
Type	VM26SS	VM26SS	VM26SS
ID Mark	2RH00	3BN00	3MB00
Main Jet	180	125	210
Air Jet	0.8	0.8	0.8
Jet Needle	406	407	5J25
Needle clip position	4th	3rd	4th
Float height - all models	20-21mm (0.787-0.827in)		

Table 3.2.1 Carburetor specifications for Yamaha DT 125

List of Equations

Equation Number	Page No.
1. A linear equation (2.1.1)	...1
2. A long mathematical series (2.1.2)	...1
3. Example matrix equation (2.1.3)	...1

List of Figures

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List of Tables

Table	Page No.
1. Carburetor specifications for Yamaha DT 125 (Table 3.2.1)	... 3

References

1. M O Tatar and A Pop, "Development of an in pipe inspection minirobot," *IOP Conf. Series: Materials Science and Engineering* **147** (2016).
2. By Atsushi Kakogawa and Shugen Ma, "Robotic Search and Rescue through In-Pipe Movement" in *Unmanned Robotic Systems and Applications*, ed. Mahmut Reyhanlu and Geert De Cubber (2019).