```python
In [2]:  from numpy import linspace
         import matplotlib.pyplot as plt
         from pyit2fls import zero_mf, singleton_mf, const_mf, tri_mf, ltri_mf, rtri_mf, \
             trapezoid_mf, gaussian_mf

         domain = linspace(0., 1., 1001)

         zero = zero_mf(domain)
         singleton = singleton_mf(domain, [0.5, 1.])
         const = const_mf(domain, [1.])
         tri = tri_mf(domain, [0., 0.5, 1., 1.])
         ltri = ltri_mf(domain, [0.5, 1., 1.])
         rtri = rtri_mf(domain, [0.5, 0., 1.])
         trapezoid = trapezoid_mf(domain, [0., 0.25, 0.75, 1., 1.])
         gaussian = gaussian_mf(domain, [0.5, 0.1, 1.])

         plt.figure()
         plt.plot(domain, zero, label="All zero MF")
         plt.plot(domain, const, label="Const MF")
         plt.grid(True)
         plt.legend()
         plt.xlabel("Domain")
         plt.ylabel("Membership function")
         plt.show()

         plt.figure()
         plt.plot(domain, singleton, label="Singleton MF")
         plt.grid(True)
         plt.legend()
         plt.xlabel("Domain")
         plt.ylabel("Membership function")
         plt.show()

         plt.figure()
         plt.plot(domain, tri, label="Triangular MF")
         plt.plot(domain, ltri, label="Left triangular MF")
         plt.plot(domain, rtri, label="Right triangular MF")
         plt.grid(True)
         plt.legend()
         plt.xlabel("Domain")
         plt.ylabel("Membership function")
         plt.show()

         plt.figure()
         plt.plot(domain, trapezoid, label="Trapezoid MF")
         plt.grid(True)
         plt.legend()
         plt.xlabel("Domain")
         plt.ylabel("Membership function")
         plt.show()

         plt.figure()
         plt.plot(domain, gaussian, label="Gaussian MF")
         plt.grid(True)
         plt.legend()
         plt.xlabel("Domain")
         plt.ylabel("Membership function")
         plt.show()
```
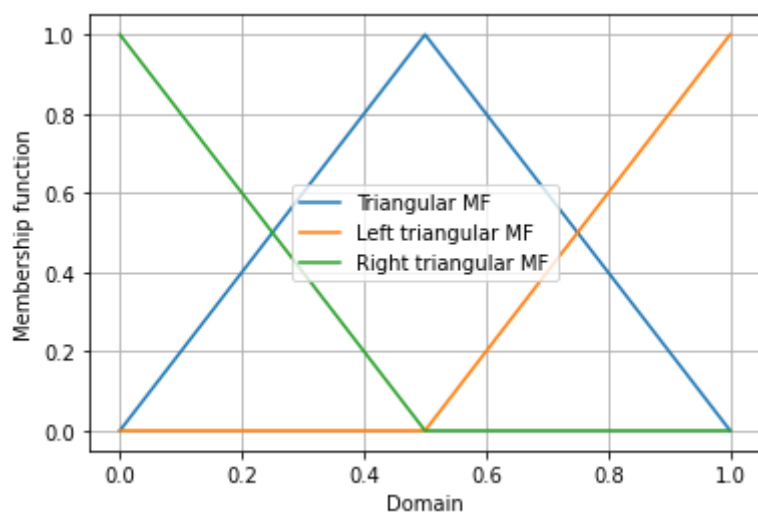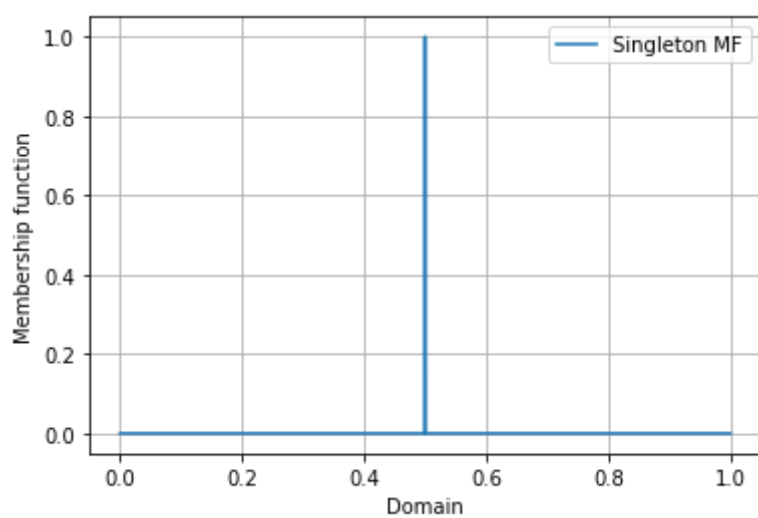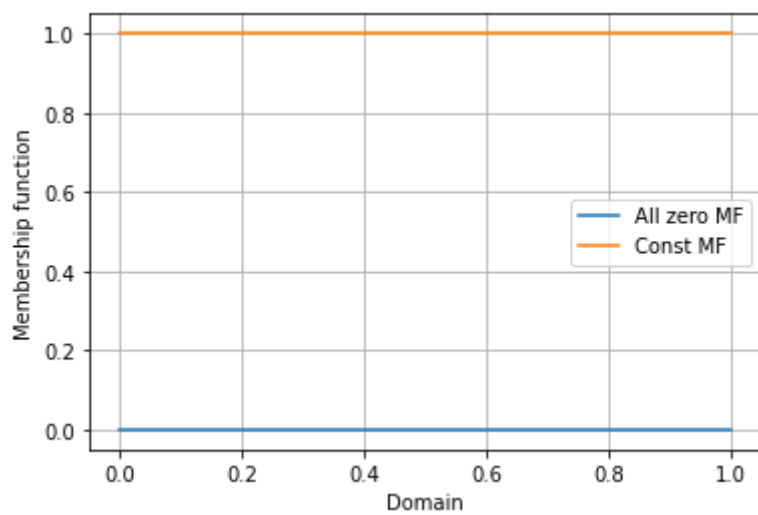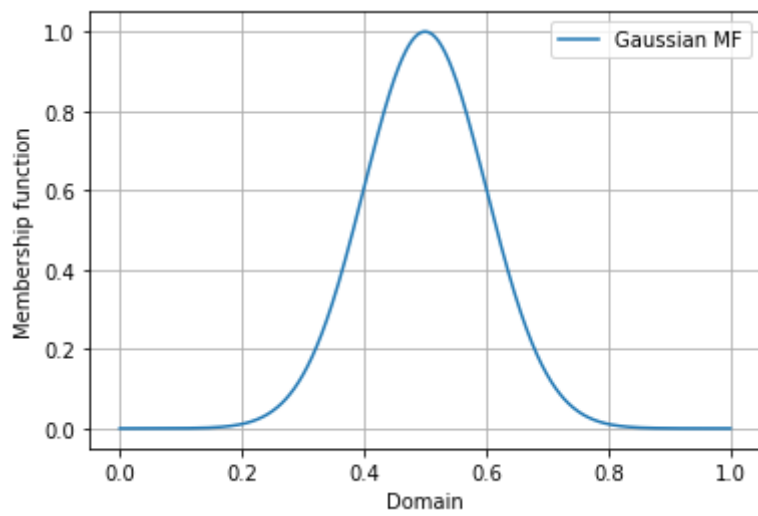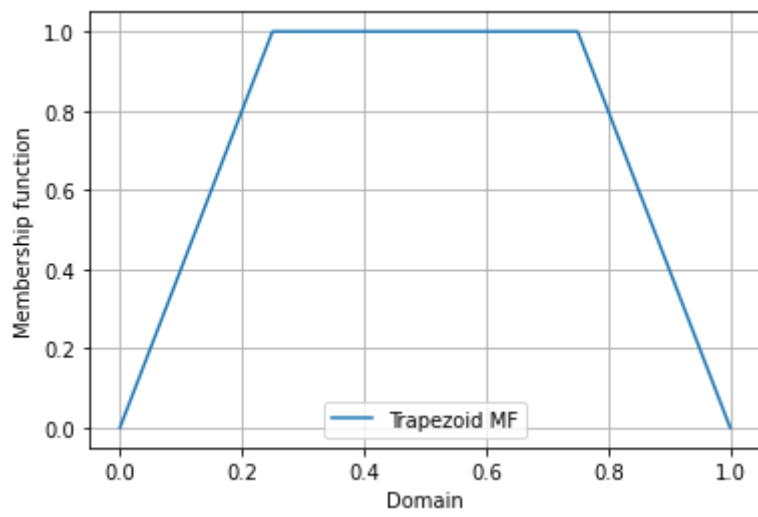
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