| Birzeit University-Faculty of Engineering and Technology |
| Electrical and Computer Engineering Department |
| EE2312-Signals& Systems |
| Signals and System with MATLAB –Assignment Test |

Inst.: Dr. Jamal Siam

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Question (10 + ((6+4) +(5+5)) Marks):

1. **Generate** and **plot** a finite pulse π (t) with value = 20 and extension between 2 and 16

2. For the signals $y_1(t) = 10\, sin(2\pi t)\pi(\frac{t-\frac{T_0}{4}}{\frac{T_0}{2}})$, $y_2(t) = \pi(0.5(t-4))$, with T_0 is the perio

   of the sinusoidal signal:

   - **Generate** the signals and **plot** $y_1(t)$.
   - **Compute** and **plot** the convolution between $y_1(t)$ and $y_2(t)$

$20\pi \quad (\quad 2 , 6$

$2 < t < 16$