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| **Benha University**  **Faculty of Engineering at Shoubra**  **Electrical Engineering Department**  **2nd Year Communications** | Benha Logo | **Quiz 1**  **Date: Monday 13/3/2017**  **Subject: Signals**  **Duration: 30 Mins** |
| * **Answer all the following questions** * **Illustrate your answers with sketches when necessary** | |  |

1. **Sketch the following continuous-time signals:**

**3 -1 =< t < 0**

**x(t) =**

**3 e-2t 0 =< t < 2**

**And x(t) = x (t-3).**

1. **Find the size of the signal in problem 1.**
2. **For the following signal sketch:**

* **The signal compressed by 2.**
* **The signal delayed by 2.**
* **The signal DC shifted by 2.**

X(t)

**t**

**0**

**1**

**3**

**4**

**2**

**1**

**2**

* **X(t) [u(t)-u(t-2)].**

**Good Luck**

**Dr. Michael Nasief**