EE3032 – Dr. Durant – Quiz 3
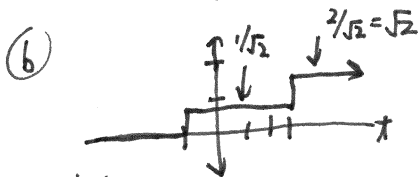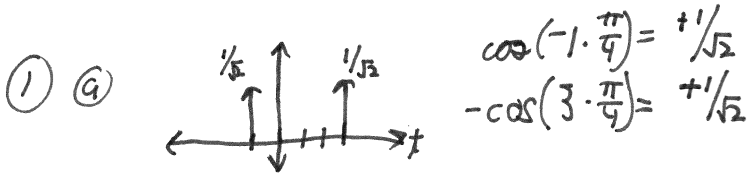## Fall 2019, Week 3

1. $w(t) = \cos(t\,\pi/4)\,[\delta(t+1) - \delta(t-3)]$
   a. Sketch w(t).
   b. Sketch the integral of $w(\tau)$ from $-\infty$ to t. This is a function with independent variable t.
   c. (If your answers have any impulses, be sure to label them with their area.)
2. Sketch a signal that has finite energy but 0 power.
3. Sketch a signal that has finite power but infinite energy.

① ⓐ

$$\cos\left(-1\cdot\frac{\pi}{4}\right) = +1/\sqrt{2}$$
$$-\cos\left(3\cdot\frac{\pi}{4}\right) = +1/\sqrt{2}$$

ⓑ

$2/\sqrt{2} = \sqrt{2}$

Many possibilities...

②

exp decay has finite area

③

eternal sinusoid

eternal triangle