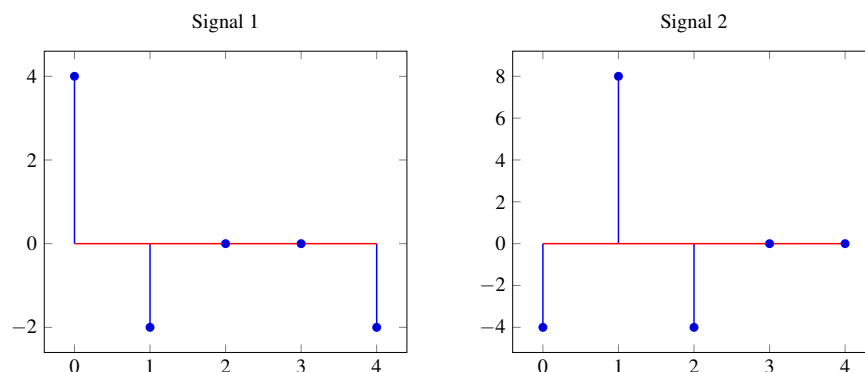


- ii. Identify a pair of anti-parallel vectors (vectors that point in opposite directions):
- iii. Identify a pair of perpendicular vectors:

3. Correlation

You are given the following two signals:



- (a) Sketch the linear cross-correlation of signal 1 with signal 2, that is find : $\text{corr}(\vec{s}_1, \vec{s}_2)$. Do not assume the signals are periodic.
- (b) Assume signal \vec{s}_2 is periodic with period 5. Find the linear cross correlation $\text{corr}(\vec{s}_1, \vec{s}_2)$ of the two signals.