

**Exercise***Computer Vision (CSCI 4220U)*

Please hand in this paper to the instructor before the end of the lecture.

Name: \_\_\_\_\_

Student number: \_\_\_\_\_ Date: \_\_\_\_\_

**Q.** Consider a signal

$$f = (1 \ 3 \ 4 \ 0 \ 3 \ 4 \ 4 \ 4)$$

and consider a filter

$$k = (1 \ 0 \ -1)$$

Confirm whether or not  $f$  and  $k * f$  has the same power.