

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

COL7(6)83 Quiz 2

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1. If you only know the unnormalized histograms  $h_f$  and  $h_g$  of two images  $f$  and  $g$ , is it possible to determine the histogram of  $f + g$ ? Justify your answer.
2. A high-pass filter should output zero in areas of constant intensity. Based on this, explain briefly why the entries of the corresponding kernel  $w$  must sum to zero.