

Subject _____

Date: ___/___/___

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$$g_1 = h_1 + h_2 * f_2$$

$$g_2 = h_1 * f_1 + f_2$$

in Fourier space

$$G_1 = F_1 + H_2 \times F_2$$

$$G_2 = H_1 F_1 + F_2$$

$$F_2 = \frac{H_1 G_1 - G_2}{H_1 H_2 - 1}$$

$$F_1 = \frac{H_2 G_2 - G_1}{H_1 H_2 - 1}$$

$$f_1 = F^{-1} \left(\frac{H_1 G_1 - G_2}{H_1 H_2 - 1} \right) \quad f_2 = F^{-1} \left(\frac{H_2 G_2 - G_1}{H_1 H_2 - 1} \right)$$

$$H_1 H_2 \neq 1$$

$$h_1 * h_2 \neq \delta$$