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1.
$$f(t) = sm(t) cos(2t) + Scos(3t) sn(4t)$$

$$= \frac{1}{2} \left[sn(3t) + sin(-t) \right] + \frac{5}{2} \left[sn(7t) - sin(-t) \right]$$

$$= -2 sin(-t) + \frac{1}{2} sin(3t) + \frac{5}{2} sin(7t)$$

$$= 2 sin(t) + \frac{1}{2} sin(3t) + \frac{5}{2} sin(7t)$$