PROBLEM:

0 kHz in 2 seconds.

A chirp signal is synthesized according to the following formula:

 $x(t) = \Re\{e^{j600\pi t^2} \cos(1600\pi t)\}\$

for 0 < t < 5

frequency versus time.

(b) Derive a formula for a chirp signal whose instantaneous frequency starts at 3 kHz and falls linearly to