## Math 305 Homework 1

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1a. Expanding:

$$(1+i)(3-2i)(2+3i) = (3+2+3i-2i)(2+3i) = (5+i)(2+3i)$$
$$= 10-3+2i+15i = 7+17i.$$

**1b.** Expanding:

 $(\frac{1+i}{2+i})^2 = (\frac{(1+i)(2-i)}{4+1})^2 = \frac{1}{3}$ 

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