

**CLASSICAL AND LINEAR ALGEBRA**  
**MATH 1210 (WINTER 2011) TUTORIAL 3**

Q.1 Write the following in cartesian form

$$(a) \quad \frac{i^3 (1+i)^2 (2-i)}{(3+2i)^2}$$

$$(b) \quad \overline{(3 + \overline{(4+2i)^2})}$$

$$(c) \quad \frac{2+i}{1 - \left(\frac{1}{1-i}\right)}$$

Q.2 Write in polar form

$$(a) \quad (\sqrt{3}+i)(\sqrt{2}-\sqrt{2}i)$$

$$(b) \quad \frac{2-2\sqrt{3}i}{\sqrt{3}-\sqrt{3}i}$$