Name:			
Matricu	lation Number:		

1. Map the positive imaginary axis, i.e., $s=j\omega, \quad 0<\omega\leq R \quad where, \quad R\to\infty$ on to the F(s) plane for

$$(i)F(s) = \frac{1}{s+2}, \quad (ii)F(s) = \frac{s+1}{s+10}, \quad (iii) \quad F(s) = \frac{s-4}{s+2}$$

Hint: You can use one of the two methods -

- (a) Graphical method drawing vectors from poles and zeros to a point moving on the imaginary axis (as explained during lecture)
- (b) Analytical method express modulus and argument of F(j ω) as function of ω and see how they vary as ω is varied from 0 to ∞