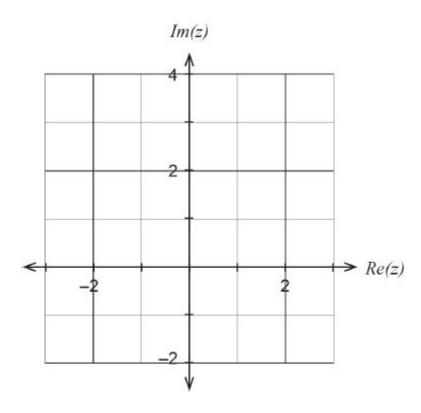
Question 10 (9 marks)

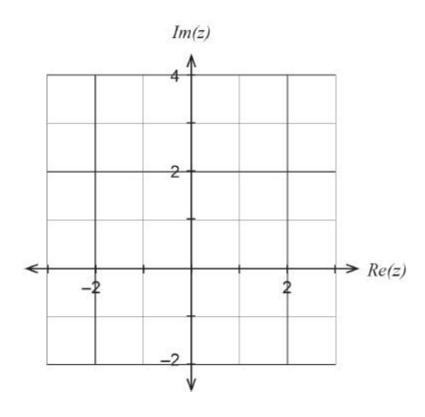
On the Argand planes below sketch the locus of the complex number z = x + iy given by:

(a) 
$$|z-2i|=1$$
. (3 marks)



(b) 
$$|z-1+i| \ge |z+1-i|$$
.

(3 marks)



(c) For the locus |z-2i|=1 from part (a), state the exact maximum value for |z+2|. (3 marks)