Directions: Answer the problems given below.

1. Evaluate each of the following:

a. $\left\lfloor \dfrac{13}{5} \right\rfloor =$

b. $\left\lceil \dfrac{13}{5} \right\rceil =$

c. $\left\lceil -\dfrac{5}{2} \right\rceil =$

d. $\lfloor -4 \rfloor =$

2. Prove that for every integer n, if n is odd then $2 \left\lceil \dfrac{n}{2} \right\rceil = n + 1$.