

If  $|X| \geq 8$ , then  $X \geq 8$  or  $X \leq -8$ . In this problem  $X$  is  $2z + 4$ . This means that you have to solve two inequalities:  $2z + 4 \geq 8$  and  $2z + 4 \leq -8$ . It seems that you found the solution to the first inequality but forgot to solve the second one.