

## Exercise 4.38

Tuesday, 8 September 2020

11:53

a)  $\left| \begin{matrix} +\frac{1}{2} & +\frac{1}{2} & +\frac{1}{2} \\ -\frac{1}{2} & -\frac{1}{2} & -\frac{1}{2} \end{matrix} \right|$ , that is, choose <sup>separately</sup> either  $+$  or  $-$  three times

This gives spin  $\frac{1}{2}$  or spin  $\frac{3}{2}$  as possible results

b)  $\left| \pm\frac{1}{2} \pm\frac{1}{2} \right|$ ; this gives either spin 0 or spin 1 as results.