| Group Group Group | 1. 2. 3. 4. | $ \begin{array}{c} \text{If } x \\ \text{If } x \\ \text{If } x \\ \text{If } x \\ \text{If } x \end{array} $ | s an s an s an s an | even odd even even | integer integer integer integer | x and y is an integer, then $x \cdot y$ is an even integer. and y is an odd integer, then $x + y$ is an even integer. x and y is an odd integer, then $x + y$ is an odd integer. x and y is an even integer, then $x + y$ is an even integer. | ER1.2.3 ER1.2.2 ER1.2.2 ER1.2.2 |
|-------------------------|-------------|---|------------------------------|-----------------------------|--|--|--|
| Group | 4. | If x i | is an | even | integer | x and y is an even integer, then $x + y$ is an even integer. | ER1.2.2 |
| Group | 5. | If m | is ar | n ever | n (resp. | odd) integer, then $m + 1$ is an odd (resp. even) integer. | ER1.2.1 |

Proof. Put your proof here.