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| Group 1. If x is an even integer and y is an integer, then $x \cdot y$ is an even integer. | ER1.2.3 |
| Group 2. If x is an odd integer and y is an odd integer, then $x + y$ is an even integer. | ER1.2.2 |
| Group 3. If x is an even integer and y is an odd integer, then $x + y$ is an odd integer. | ER1.2.2 |
| Group 4. If x is an even integer and y is an even integer, then $x + y$ is an even integer. | ER1.2.2 |
| Group 5. If m is an even (resp. odd) integer, then $m + 1$ is an odd (resp. even) integer. | ER1.2.1 |
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Proof. Put your proof here.

