



A vector diagram on a grid. A horizontal green vector \vec{u} starts at the second vertical grid line from the left and ends at the fifth vertical grid line from the left, with an arrowhead at the end. The vector is labeled \vec{u} above it. To the right of the vector, there are three labels: $\frac{1}{2}\vec{u}$ at the top, $-\frac{2}{3}\vec{u}$ in the middle, and $2\vec{u}$ at the bottom. The $2\vec{u}$ label is positioned below the horizontal line of the vector.

$$\vec{u}$$
$$\frac{1}{2}\vec{u}$$
$$-\vec{u}$$
$$-\frac{2}{3}\vec{u}$$
$$2\vec{u}$$