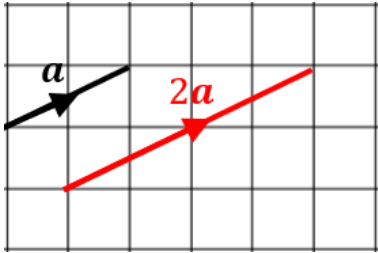
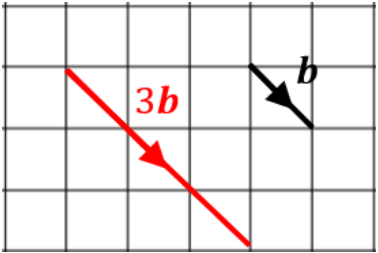
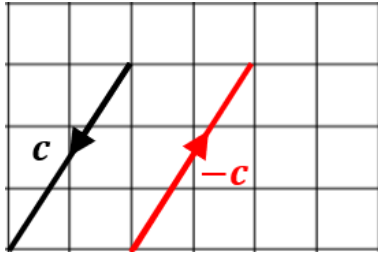
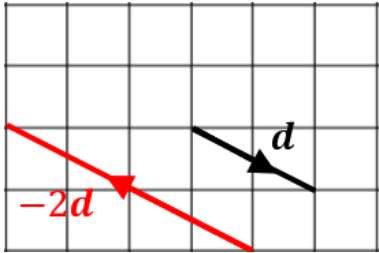
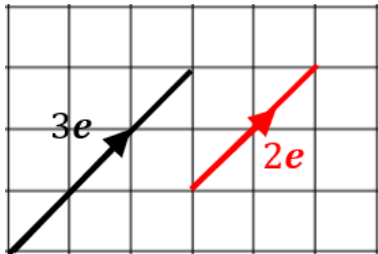
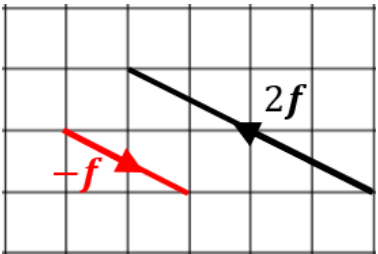
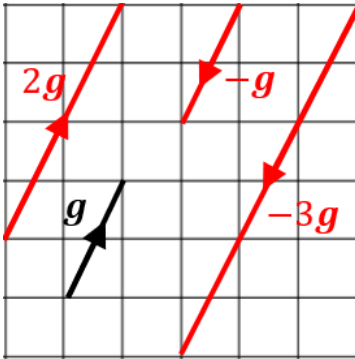


## Multiplying Vectors

(a)	(b)	(c)	(d)
<p>The vector <math>a</math> is shown. Draw the vector <math>2a</math>.</p> 	<p>The vector <math>b</math> is shown. Draw the vector <math>3b</math>.</p> 	<p>The vector <math>c</math> is shown. Draw the vector <math>-c</math>.</p> 	<p>The vector <math>d</math> is shown. Draw the vector <math>-2d</math>.</p> 
(e)	(f)	(g)	
<p>The vector <math>3e</math> is shown. Draw the vector <math>2e</math>.</p> 	<p>The vector <math>2f</math> is shown. Draw the vector <math>-f</math>.</p> 	 <div style="margin-left: 20px;"> <math>g = \begin{pmatrix} 1 \\ 2 \end{pmatrix}</math>                      Draw and write down the column vector for                      (i) <math>2g</math> (ii) <math>-g</math> (iii) <math>-3g</math>                      (i) <math>\begin{pmatrix} 2 \\ 4 \end{pmatrix}</math> (ii) <math>\begin{pmatrix} -1 \\ -2 \end{pmatrix}</math> (iii) <math>\begin{pmatrix} -3 \\ -6 \end{pmatrix}</math> </div>	
(i)	(j)	(k)	(l)
$a = \begin{pmatrix} -2 \\ 5 \end{pmatrix}$ <p>Find <math>4a</math></p> $\begin{pmatrix} -8 \\ 20 \end{pmatrix}$	$b = \begin{pmatrix} 6 \\ -3 \end{pmatrix}$ <p>Find <math>-2b</math></p> $\begin{pmatrix} -12 \\ 6 \end{pmatrix}$	$c = \begin{pmatrix} -3 \\ -12 \end{pmatrix}$ <p>Find <math>\frac{2}{3}c</math></p> $\begin{pmatrix} -2 \\ -8 \end{pmatrix}$	$-3d = \begin{pmatrix} 3\sqrt{2} \\ -6 \end{pmatrix}$ <p>Find <math>d</math></p> $\begin{pmatrix} -\sqrt{2} \\ 2 \end{pmatrix}$