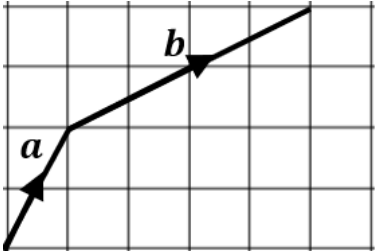
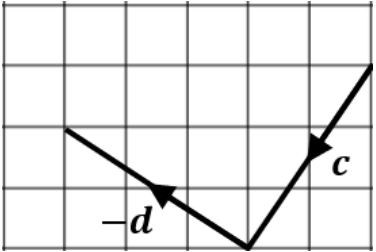
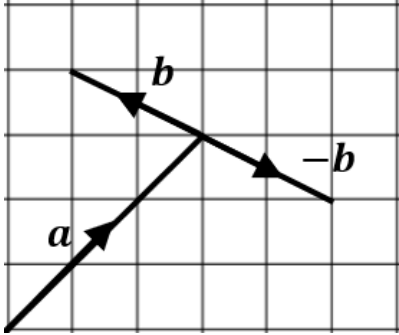
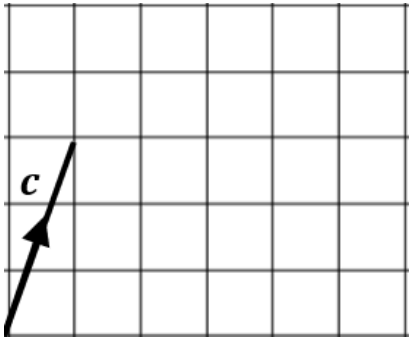
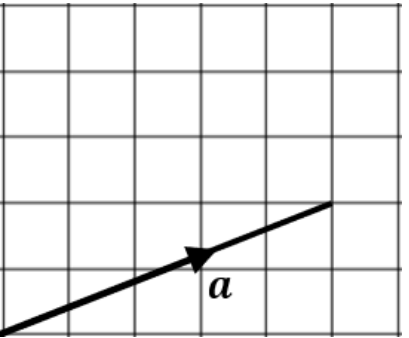


Adding and Subtracting Vectors

Adding and Subtracting Vectors			
(a)	(b)	(c)	
<p>The vectors a and b are shown. Draw the vector $a + b$.</p> 	<p>The vectors c and $-d$ are shown. Draw the vector $c + (-d)$.</p> 	 <p>The vectors a, b and $-b$ are shown. Draw the vectors (i) $a + b$ (ii) $a + (-b)$.</p>	
(d)	(e)		(f)
	<p>$c = \begin{pmatrix} 1 \\ 3 \end{pmatrix}$ $d = \begin{pmatrix} 4 \\ -1 \end{pmatrix}$ Draw the vector $c + d$ and find its column vector.</p> 		<p>$a = \begin{pmatrix} 5 \\ 2 \end{pmatrix}$ $b = \begin{pmatrix} 2 \\ 1 \end{pmatrix}$ Draw the vector $a - b$ and find its column vector.</p>
<p>$e = \begin{pmatrix} 7 \\ 1 \end{pmatrix}$ $f = \begin{pmatrix} -3 \\ 4 \end{pmatrix}$ Find $e + f$</p>			
(g)	(h)	(i)	(j)
<p>$c = \begin{pmatrix} -2 \\ 5 \end{pmatrix}$ $d = \begin{pmatrix} 1 \\ 4 \end{pmatrix}$ Find $c - d$</p>	<p>$a = \begin{pmatrix} 0 \\ 4 \end{pmatrix}$ $b = \begin{pmatrix} 6 \\ -3 \end{pmatrix}$ Find $b - a$</p>	<p>$e = \begin{pmatrix} -6 \\ 1 \end{pmatrix}$ $f = \begin{pmatrix} 2 \\ -1 \end{pmatrix}$ Find $-e + f$</p>	<p>$a = \begin{pmatrix} 8 \\ 0 \end{pmatrix}$ $b = \begin{pmatrix} -2 \\ -5 \end{pmatrix}$ $c = \begin{pmatrix} -3 \\ 7 \end{pmatrix}$ Find (i) $a + b + c$ (ii) $a + b - c$ (iii) $a - b - c$</p>