

Fill in the Blanks

Momentum and Impulse with Vectors

Mass of Particle (kg)	Initial Velocity (ms^{-1})	Final Velocity (ms^{-1})	Force (N)	Time (s)	Impulse I (Ns)	Magnitude of Impulse (Ns)	Angle I makes with i
	$3i + 2j$	$5i + j$		2	$6i - 3j$		26.6°
2	$4i + 2j$	$-i + 7j$		5			
5	$-2i + 3j$		$\frac{5}{2}i - 6j$		$25i - 60j$		
2		$-3i - 2j$		4	$-16i$		
	$9\sqrt{3}i + 3j$	$\sqrt{3}i + 11j$	$-2\sqrt{3}i + 2j$	2			
0.25	$-6i - 15j$			3	$2i + 6j$		
3	$3i - 6j$	$3i - 2j$		8			
0.4		$-i + \sqrt{3}j$	$8i - 8\sqrt{3}j$	0.25			