LaTeX Example

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Question 1

Part A

The velocity of the particle is given by $v(t) = at$.

To find the position, velocity is integrated with respect to time.

$$x(t) = \int_{t_0}^{t_1} v(t)dt = \frac{a}{2}t^2 + x_0$$

Part B

The positions for 1s and 2s are given.

t (s)	x (m)
1	$\frac{1}{2}$
2	2

Question 2

The vector field $\vec{v} = \langle y, -x \rangle$ is shown.

Question 3

The following equations

$$2x + 3y$$

$$4x + 5y$$

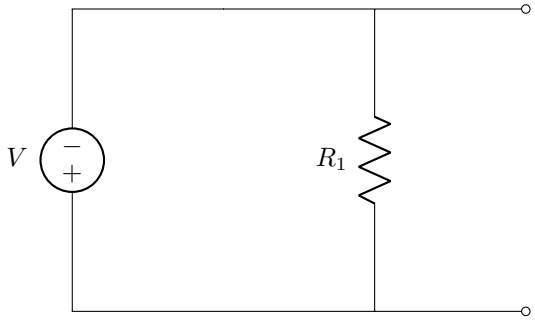
are given by the following matrix

$$\begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix}$$

Question 4

$$\begin{aligned} a &= 2x + 2y \\ &= 2(x + y) \end{aligned}$$

Question 5



Question 6

Listing 1: FORTRAN example

```
PROGRAM EXAMPLE
  INTEGER :: N = 3
  N = N + 1
  PRINT *, N
END PROGRAM EXAMPLE
```