

1

Solve the simultaneous equations

$$7x + 2y = 36 \quad - \textcircled{1}$$

$$3x + 2y = 16 \quad - \textcircled{2}$$

[3 marks]

$$\textcircled{1} - \textcircled{2} : 7x - 3x + 2y - 2y = 36 - 16$$

$$4x = 20 \quad \textcircled{1}$$

$$x = 5$$

$$7(5) + 2y = 36$$

$$2y = 36 - 35$$

$$y = \frac{1}{2} \quad \textcircled{1}$$

$$x = \underline{5} \quad y = \underline{0.5}$$