2021 Worksheet 8
Year 11 Applied Mathematics

Write the answers in your Exercise Book.

1. Simplify the following expressions:

   (a) $x - (x+1)$ **(1 mark)**

   (b) $(x-8) - (2x-4)$ **(1 mark)**

   (c) $2y - 3x^2 - y + x^2$ **(1 mark)**

   (d) $xy + 3 + 5xy$ **(1 mark)**

2. Factorise the following expressions:

   (a) $10x - x^2$ **(1 mark)**

   (b) $8 - 2x^2$ **(1 mark)**

   (c) $4x^2 - \dfrac{1}{9}$ **(1 mark)**

   (d) $x^2 + x$ **(1 mark)**

3. Calculate the **total surface area** of the box shown below.   **(2 marks)**

20 cm

40 cm

50 cm