

Introduction to Coordinates

Solution

4. (a) Coordinates of A: $(-3, -1)$

Coordinates of B: $(2, -1)$

(b) The area of $\triangle ABC = \frac{[2 - (-3)][3 - (-1)]}{2}$
 $= 10$ sq. units

5. (a) The area $= \frac{(7-2)(5-3)}{2} + \frac{(7-2)[3 - (-1)]}{2}$
 $= 5 + 10$
 $= 15$ sq. units

(b) The area
 $= (3 \times 3) + \frac{(3+5)[-3 - (-7)]}{2} - \frac{(1)[-5 - (-7)]}{2}$
 $= 9 + 16 - 1$
 $= 24$ sq. units