

|       |                                                                                                                 |
|-------|-----------------------------------------------------------------------------------------------------------------|
| 10(a) | Attempt to substitute for $x$ or $y$ to produce quadratic equation in one variable                              |
|       | Obtain $5x^2 - 40x + 75 = 0$ or $5y^2 - 20 = 0$                                                                 |
|       | Find two values of one variable                                                                                 |
|       | Obtain coordinates $(3, 2)$ and $(5, -2)$                                                                       |
|       |                                                                                                                 |
| 10(b) | Obtain centre $(0, -2)$ [and radius 5]                                                                          |
|       | Attempt area of $ABC$ using mid-point of $AB$ or $\frac{1}{2} \times \text{base} \times \text{height}$          |
|       | Obtain $\frac{1}{2} \sqrt{20} \times \sqrt{20}$ or $\frac{1}{2} \times 5 \times 4$ (or equivalent) and hence 10 |
|       |                                                                                                                 |