

Exercise A

- 1 a** $(x - 3)^2 + (y - 2)^2 = 16$
b $(x + 4)^2 + (y - 5)^2 = 36$
c $(x - 5)^2 + (y + 6)^2 = 12$
d $(x - 2a)^2 + (y - 7a)^2 = 25a^2$
e $(x + 2\sqrt{2})^2 + (y + 3\sqrt{2})^2 = 1$
- 2 a** $(-5, 4), 9$ **b** $(7, 1), 4$
c $(-4, 0), 5$ **d** $(-4a, -a), 12a$
e $(3\sqrt{5}, -\sqrt{5}), 3\sqrt{3}$
- 4** $(x - 8)^2 + (y - 1)^2 = 25$
5 $(x - \frac{3}{2})^2 + (y - 4)^2 = \frac{65}{4}$
6 $\sqrt{5}$
- 8 a** $3\sqrt{10}$
9 a $(x - 4)^2 + (y - 6)^2 = 73$ **b** $3x + 8y + 13 = 0$
- 10 a** $(0, -17), (17, 0)$ **b** 144.5
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Exercise B

- 1** $(7, 0), (-5, 0)$
2 $(0, 2), (0, -8)$
3 $a = -2, 8$ $b = -8, 2$
4 $(6, 10), (-2, 2)$
5 $(4, -9), (-7, 2)$
9 $(0, -2), (4, 6)$
10 a 13 **b** $1, 5$
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