

S5E-32A

1. (a) $(x-3)^2 + (y-2)^2 = 13$

(b) $(x-1)^2 + y^2 = 4$

2. (a) $x^2 + y^2 + 8x = 0$

(b) $x^2 + y^2 - 8x - 4y - 16 = 0$

3. $x^2 + y^2 + 10x - 4y - 12 = 0$

4. (a) $x^2 + y^2 - 10x - 8y + 32 = 0$

(b) Yes

5. 2

6. (a) $P(8, -1), Q(4, 3)$

(b) $4\sqrt{2}$

7. (a) Omitted

(b) $x^2 + y^2 - 8x - 2y + 12 = 0$

(c) $(2, 0)$

8. (a) $(8, k); \sqrt{k^2 + 52k + 56}$

(b) 10

(c) $P(-16, 0), Q(32, 0)$

9. (a) $(-3, 4); 3$

(b) Omitted

(c) $x - y + 5 = 0$

(d) 4

M.C.

1. A

2. D

3. D

4. D