

S4E-8A

1. (a) $9x - 8y - 14 = 0$

(b) $3x - 4y + 30 = 0$

(c) $x - 8y + 64 = 0$

(d) $x = -5$

2. (a) $A(-2, 4)$

$B(3, 2)$

(b) $2x + 5y - 16 = 0$

3. (a) Omitted

(b) $M(3, 0)$

(c) $AM = MB = \sqrt{52}$

(d) $MC = \sqrt{52}$

$\therefore MC = AM = \text{radius}$

\therefore The circle passes through C

4. (a) $(-1, -1)$

(b) $\left(-\frac{1}{2}, -\frac{1}{2}\right)$

(c) 1

(d) $x + y + 1 = 0$

5. (a) $3x - 2y - 16 = 0$

(b) $x = \frac{32}{3}$

6. Omitted

M.C.

1. B

2. A

3. B