

EXERCISE 3E

- 1 Substitute $y = x - 3$ into $(x - 3)^2 + (y + 2)^2 = 20$:

$$(x - 3)^2 + (x - 3 + 2)^2 = 20$$

$$(x - 3)^2 + (x - 1)^2 = 20.$$

$$2x^2 - 8x + 10 = 20$$

$$2x^2 - 8x - 10 = 0$$

$$x^2 - 4x - 5 = 0$$

$$(x - 5)(x + 1) = 0$$

$$x = 5 \text{ or } x = -1$$

Substituting $x = 5$ into $y = x - 3$ gives:

$$y = 2$$

Substituting $x = -1$ into $y = x - 3$ gives:

$$y = -4$$

The intersection points are at $(5, 2)$ and $(-1, -4)$.

- 3 Solve $3x + y = 6$[1]

$$\text{and } x^2 + y^2 + 4x + 16y + 28 = 0$$
....[2]

simultaneously to find the intersection point.

Make y the subject of [1] and substitute into [2]:

$$x^2 + (6 - 3x)^2 + 4x + 16(6 - 3x) + 28 = 0$$

$$x^2 + 36 - 36x + 9x^2 + 4x + 96 - 48x + 28 = 0$$

$$10x^2 - 80x + 160 = 0$$

$$x^2 - 8x + 16 = 0$$

$$(x - 4)^2 = 0$$

$$x = 4$$

Substituting into the linear equation [1] gives:

$$y = -6$$

The intersection point is $(4, -6)$.

There is only one solution (a repeated root); hence the line must be a tangent to the circle.

- 4 $y = mx + 1$[1]

$$(x - 7)^2 + (y - 5)^2 = 20$$
....[2]

Using [1], substitute for y in [2]:

$$(x - 7)^2 + (mx + 1 - 5)^2 = 20$$

$$(x - 7)^2 + (mx - 4)^2 = 20$$

$$x^2 - 14x + 49 + m^2x^2 - 8mx + 16 = 20$$

$$(1 + m^2)x^2 + x(-14 - 8m) + 45 = 0$$

Comparing with $ax^2 + bx + c = 0$:

$$a = 1 + m^2, \quad b = -14 - 8m, \quad c = 45$$

For two solutions, $b^2 - 4ac > 0$:

$$(-14 - 8m)^2 - 4(1 + m^2)(45) > 0$$

$$196 + 224m + 64m^2 - 180 - 180m^2 > 0$$

$$-116m^2 + 224m + 16 > 0$$

The graph of $y = -116m^2 + 224m + 16$ is an \cap shaped parabola.

To find the m -intercepts, using the quadratic formula again:

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Lingsheng Yao



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