**Equation of a Circle**

Find the centre and radius of each of these circles:

(a)

(b)

(c)

(d)

(e)

(f)

Write down the equation of the circle with:

(a) Centre (1, 2) and radius 8

(b) Centre (7, 3) and radius 2

(c) Centre (-2, 5) and radius 5

(d) Centre (-5, -1) and radius 4

(e) Centre (3, -6) and radius

(f) Centre (0, -4) and radius

Find the centre and radius of the circle with equation:

(a)

(b)

(c)

(d)

(a) Show that the point lies on the circle with equation

(b) A circle has centre . The point lies on the circumference of the circle. Find the equation of the circle.

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