

Quiz: Equations of Circles

- 1 Convert this equation into center - radius form. State the coordinates of the center of the circle and its radius.
 $x^2 - 14x + y^2 - 8y + 40 = 0$

- 2 State the equation of a circle in standard form which has a center at (4, - 1) and a radius of 6.

- 3 Write the center - radius equation of a circle with a center at (- 2,10) and passes through the point (- 1,8).

- 4 Write the standard equation of a circle that is tangent to the x - axis, with a center located at (3, - 10).

- 5 Convert this equation into center - radius form. State the coordinates of the center of the circle and its radius.
 $x^2 - 16x + y^2 + 4y + 59 = 0$

- 6 State the equation of a circle in standard form which has a center at (5, - 7) and a radius of 4.

- 7 Write center - radius equation of a circle with a center at (1, - 6) and passes through the point (- 3,9).

- 8 Write the standard equation of a circle that is tangent to the x - axis, with a center located at (2, - 8).

Write center - radius equation of the circle whose graph is shown below.

