

Writing Equations of Circles

Use the information provided to write the standard form equation of each circle.

1) $8x + x^2 - 2y = 64 - y^2$

2) $137 + 6y = -y^2 - x^2 - 24x$

3) $x^2 + y^2 + 14x - 12y + 4 = 0$

4) $y^2 + 2x + x^2 = 24y - 120$

5) $x^2 + 2x + y^2 = 55 + 10y$

6) $8x + 32y + y^2 = -263 - x^2$

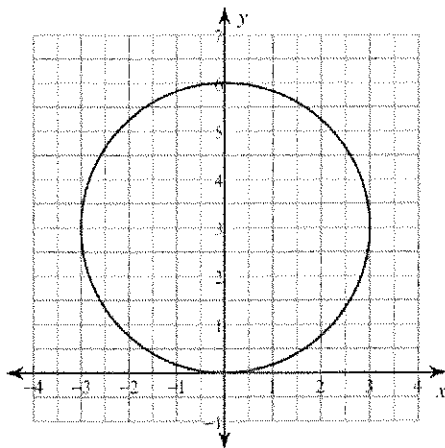
7) Center: $(-11, -8)$
Radius: 4

8) Center: $(-6, -15)$
Radius: $\sqrt{5}$

9) $(x - 16)^2 + (y - 6)^2 = 1$
Translated 4 left, 2 up

10) $(x + 5)^2 + (y + 7)^2 = 36$
Translated 5 left, 4 down

11)



12)

