

6.8 - Practice

Identify the center and radius of each.

1) $-52 - 4y = -y^2 - 10x - x^2$

2) $x^2 + y^2 + 72 + 6y = 16x$

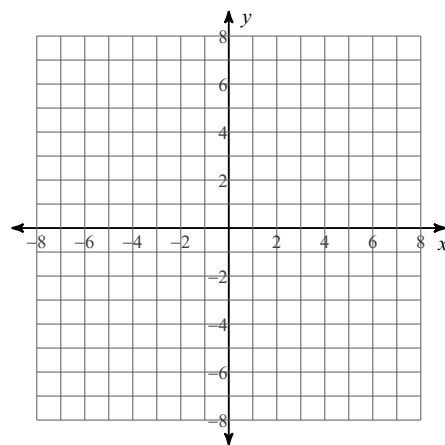
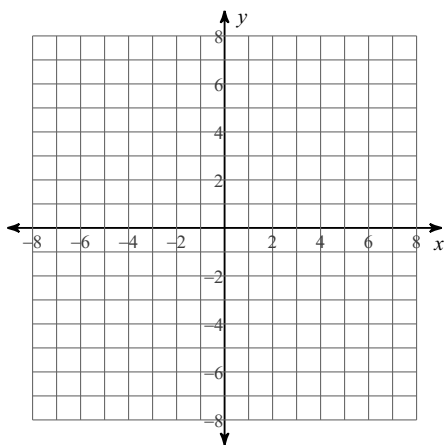
3) $105 - 22x = -x^2 - y^2$

4) $220 = -x^2 - y^2 + 4x - 30y$

Identify the center and radius of each. Then sketch the graph.

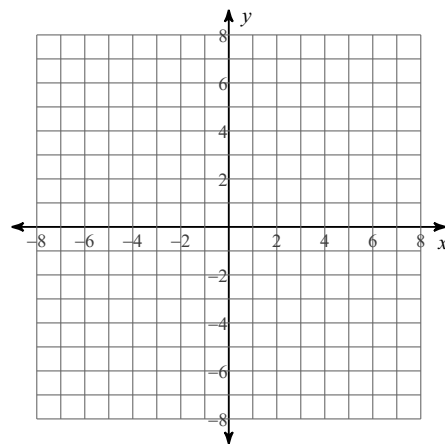
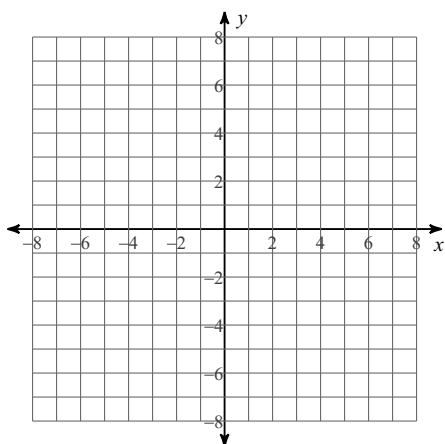
5) $-8y = -y^2 - x^2 - 11$

6) $(x - 3)^2 + (y + 4)^2 = 4$



7) $(x + 1)^2 + (y + 2)^2 = 9$

8) $x^2 + 6x + 24 = -y^2 + 8y$



6.8 - Practice

Identify the center and radius of each.

1) $-52 - 4y = -y^2 - 10x - x^2$

Center: $(-5, 2)$
 Radius: 9

2) $x^2 + y^2 + 72 + 6y = 16x$

Center: $(8, -3)$
 Radius: 1

3) $105 - 22x = -x^2 - y^2$

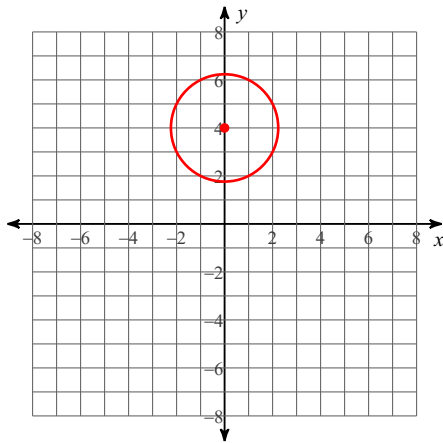
Center: $(11, 0)$
 Radius: 4

4) $220 = -x^2 - y^2 + 4x - 30y$

Center: $(2, -15)$
 Radius: 3

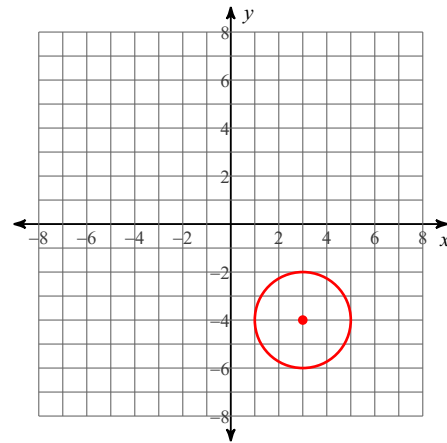
Identify the center and radius of each. Then sketch the graph.

5) $-8y = -y^2 - x^2 - 11$



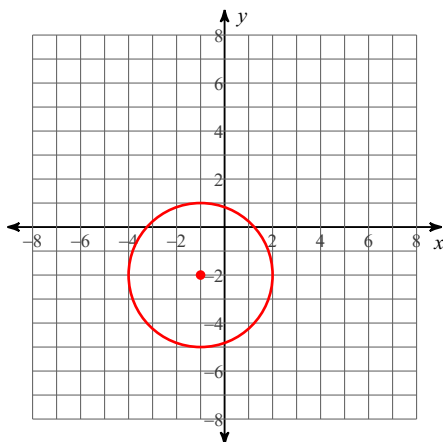
Center: $(0, 4)$
 Radius: $\sqrt{5}$

6) $(x - 3)^2 + (y + 4)^2 = 4$



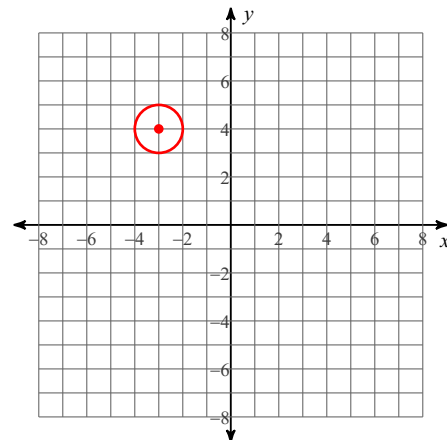
Center: $(3, -4)$
 Radius: 2

7) $(x + 1)^2 + (y + 2)^2 = 9$



Center: $(-1, -2)$
 Radius: 3

8) $x^2 + 6x + 24 = -y^2 + 8y$



Center: $(-3, 4)$
 Radius: 1