Equations of circles - class

Name Schade ID: 1

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

1) Center: $(-5, -11)$
Radius: 4

$(x+5)^2 + (y+11)^2 = 16$

2) Center: $(3, 13)$
Radius: 3

$(x-3)^2 + (y-13)^2 = 9$

3) Center: $(-11, 17)$
Point on Circle: $(-10, 17)$

$(x+11)^2 + (y-17)^2 = 1$

4) Center: $(11, -14)$
Point on Circle: $(13, -18)$

$(x-11)^2 + (y+14)^2 = 20$

5) Center: $(16, -10)$
Point on Circle: $(17, -8)$

$(x-16)^2 + (y+10)^2 = 5$

6) Center: $(-4, -2)$
Point on Circle: $(-9, 12)$

$(x+4)^2 + (y+2)^2 = 221$

7) $x^2 + y^2 - 22x + 32y + 373 = 0$

$(x-11)^2 + (y+16)^2 = 4$

8) $x^2 + y^2 - 8x - 26y + 169 = 0$

$(x-4)^2 + (y-13)^2 = 16$

9) $x^2 + y^2 + 28x - 8y + 204 = 0$

$(x+14)^2 + (y-4)^2 = 8$

10) $x^2 + y^2 - 28x + 8y + 196 = 0$

$(x-14)^2 + (y+4)^2 = 16$

11) $x^2 + y^2 + 32x + 4y + 259 = 0$

$(x+16)^2 + (y+2)^2 = 1$

12) $x^2 + y^2 + 10x - 8y - 23 = 0$

$(x+5)^2 + (y-4)^2 = 64$

13) $x^2 + y^2 - 6x + 32y + 264 = 0$

$(x-3)^2 + (y+16)^2 = 1$

14) $x^2 + y^2 - 4x - 32y + 251 = 0$

$(x-2)^2 + (y-16)^2 = 9$