College Math Name_____

Graphing Practice Quiz #2

Date_____

Write the slope-intercept form of the equation of the line described.

1) through: $(-1, 2)$, parallel to $y = -7x + 3$

2) through: $(-5, -2)$, parallel to $y = \frac{2}{5}x + 4$

Write the standard form of the equation of the line described.

3) through: $(-4, 2)$, parallel to $x + 2y = 3$

4) through: $(0, -4)$, parallel to $4x - 3y = -7$

Write the point-slope form of the equation of the line described.

5) through: $(1, 5)$, parallel to $y - 2 = 3(x + 1)$

6) through: $(3, -2)$, parallel to $y + 8 = -\frac{4}{3}(x - 4)$

Write the slope-intercept form of the equation of the line described.

7) through: $(3, -5)$, perp. to $y = \frac{3}{10}x - 3$

8) through: $(2, -1)$, perp. to $y = x - 2$

Write the standard form of the equation of the line described.

9) through: $(-4, -5)$, perp. to $x + 2y = 9$

10) through: $(-1, 2)$, perp. to $3x - 5y = -5$

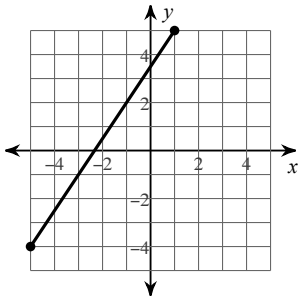
Write the point-slope form of the equation of the line described.

11) through: $(-4, -3)$, perp. to $y + 7 = -2(x + 1)$

12) through: $(-3, 2)$, perp. to $y - 5 = 3(x + 4)$

Find the distance between each pair of points.

13)



14) $(-7, 2)$, $(1, -3)$

Find the midpoint of the line segment with the given endpoints.

15) $(-10, -7)$, $(8, -5)$

16) $(-1, -10)$, $(3, -4)$

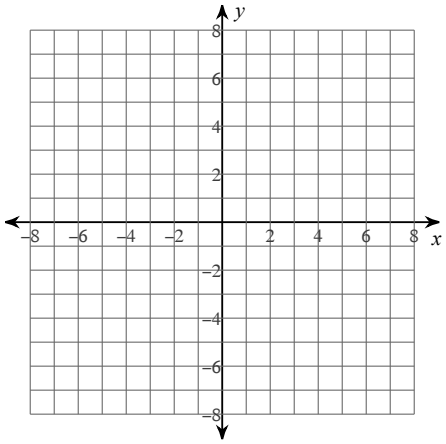
Given the midpoint and one endpoint of a line segment, find the other endpoint.

17) Endpoint: $(0, 5)$, midpoint: $(3, 8)$

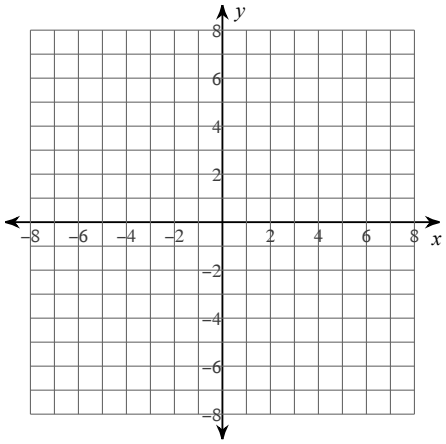
18) Endpoint: $(3, 9)$, midpoint: $(1, 5)$

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

19) $(x+2)^2+(y+2)^2=18$



20) $(x+1)^2+(y+1)^2=27$

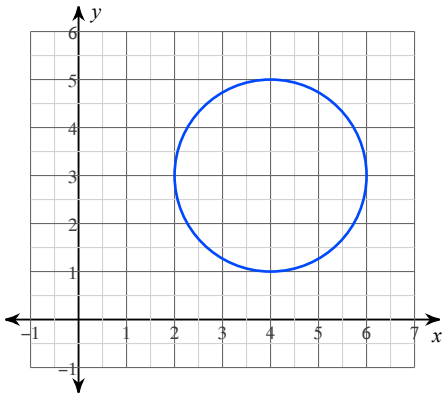


Use the information provided to write the equation of each circle.

21) Center: $(-15, 13)$
Radius: 2

22) Center: $(-4, -16)$
Radius: 3

23)



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