

Find the distance between:

1. $(0, -2)$ and $(-5, -1)$ 2. $(6, 4)$ and $(10, -4)$ 3. $(-8, 10)$ and $(-6, 7)$ 4. $(-5, 6)$ and $(8, -4)$

5. Name a point that is $\sqrt{2}$ away from $(-1, 5)$.

6. Name a point that is between 50 and 60 units away from $(7, -2)$ and state the distance between the points.

Write the equation of the circle in standard form.

7. $x^2 - 8x + y^2 - 2y - 64 = 0$ 8. $x^2 + 24x + y^2 + 6y + 137 = 0$ 9. $x^2 + y^2 - 14x - 12y = -4$
10. $y^2 + 2x + x^2 = 24y - 120$ 11. $x^2 + 2x + y^2 = 55 + 10y$ 12. $32y + y^2 - 8x = -263 - x^2$

Write the equation of the circle in expanded form.

13. Center: $(-1, 3)$ 14. Center: $(5, -12)$ 15. Center: $(2, 6)$ 16. Center: $(-7, 3\sqrt{2})$
Area: 16π Circumference: 6π Circumference: $2\pi\sqrt{5}$ Area: 12π

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