



4E. Sketch the circle with equation

$$x^2 + y^2 + 8x - 14y + 40 = 0,$$

Showing any intercepts with the coordinate axes.

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4P. Sketch the circle with equation

$$x^2 + y^2 - 20x - 12y + 55 = 0,$$

Showing any intercepts with the coordinate axes.

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5E. Verify that the point (3, 8) does **not** lie on the circle with equation

$$x^2 + y^2 - 4x + 6y - 20 = 0$$

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5P. Verify that the point (-1, -5) lies on the circle with equation

$$x^2 + y^2 + 8x + 2y - 8 = 0$$

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