AP CALCULUS AB Dr. Paul L. Bailey

Activity 0814 Wednesday, August 14, 2024 Name:

Write all sets using correct set notation.

Problem 1. Solve the inequality $|x - 10| \ge 0$.

Problem 2. Solve the inequality $|3x - 5| \le 8$.

Problem 3. Solve the inequality |2x + 7| > 9.

Problem 4. Solve the inequality $x^2 - 3x > 10$.

Problem 5. Find the center and radius of the circle with equation $x^2 + y^2 = 12x - 4y + 10$.

Problem 6. Find the equation of a circle which is tangent to the lines x = 0, x = 2, and y = x.

Problem 7. Find the equation of a parabola with focus at (2, 4) and vertex at (-2, 4). Find its x and y intercepts.

Problem 8. Let C be the circle with equation $x^2 + y^2 = 1$ and let P be the parabola with equation $y = x^2$. Find $C \cap P$.