work, or for wrinkled paper. You will be given a final copy of this closer to the due date.	
1. Simplify; single simple fraction. (18 pts). Provide FINAL answer only! (I know! weird!)	3. A circle has center (C, D). The point (C-3, D+4) is on the circle. Use a labeled diagram, no calculator, no algebraic
a. $(Ax + B)^3$	<ul> <li>a. The line y = k intersects the circle in exactly one point.</li> <li>Determine k (numerical value)</li> <li>b. Determine the coordinates of the intersection of the circle and the line x = C+3</li> </ul>
b. $Ax(C+Bx^D)^2$	
c. $Ax(CBx^D)^C$ Leave answer in this form: $k \cdot n^r \cdot x^p$	
d. $\frac{1}{A+x} - \frac{3}{B+x}$	
e. $\frac{(A \div x)}{\left(\frac{B}{1+x}\right)}$ Parentheses added for clarity.	
	4. Draw the circle with center (A, B) and radius 17.
f. $\frac{x^A x^B x^D}{x^C}$	a. Plot eight lattice points on the circle, none of which is on the same vertical or horizontal line as the center, and label their coordinates on the diagram. (4 pts)
	b. Determine by calculation whether $(A+14,B+10)$ is on, inside, or outside the circle. Explain. (4 pts)
2. This bizarre object consists of a segment joined to a quarter-circle. The center of the circle is at the point where the two little segments cross (they are not part of the object). Accurately draw the locus of points 1.5 cm from this object. (6 pts)	
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