Review for Quiz #1

1. Determine the quadrant(s) in which (x, y) is located so that the condition(s) is (are) satisfied. A. $y>4 \quad x<8$ B. $y<-2 \quad x<-5$ C. $y<4 \quad x>12$	2. Find the distance between the given points. Give an exact answer in reduced radical form. A. (–1, –5), (–9, –1) B. (3, 4), (4, –1)
3. Find the midpoint of the two given points. A. (2, –3), (5, –8) B. (–4, 7), (–10, –5)	4. An airplane flies directly from San Francisco to San Diego, which is 400 miles south and 300 miles east. How far does the plane fly?
5. Write the equation of the circle in standard form given that two endpoints of a diameter are (–1, 4) and (3, –10)	6. Write the equation of the circle in standard form given that the center of the circle is at (4, 5) and a point on the circle (or a solution of the equation) is (–2, 3).
7. Find the x and y intercepts of the equation. A. 6x + 2y – 9 = 0 B. y = 2/3 x + 9	8. Find the equation of the line that passes through the given points. Sketch the line A. (4, 3), (–4, –4) B. (5, –1), (–5, 5)
9. Find the equation of the line that passes through (5, 7) and is A. Parallel to y = –x + 1 B. Perpendicular to y = –x + 1	10. Find the equation of the line that passes through (–1, 4) and is A. Parallel to 3y + 6x + 10 = 0 B. Perpendicular to 3y + 6x + 10 = 0
11. This was incorrectly simplified. Fix the right side of the equation to make the equation true. $\frac{21x}{4}-\frac{(y+5)}{2}=\frac{21x-2y-5}{4}$	12. This was incorrectly simplified. Fix the right side of the equation to make the equation true. $\frac{xa+xb}{x+8x}=\frac{a+b}{8}$