Name _____ Date _____

Quiz: Linear - Quadratic Systems

1	$y=x^2+2x+5$ $y=x+7$	2	$y=x^2+4x$ $y=x+1$
3	$18=x^2+y^2$ $y=x$	4	$y=x^2+6$ $y=2x$
5	$x^2-12=y$ $y+3=2x$	6	$x^2+y=4$ $y=x$
7	$y/(x^2-80)=1$ $y-10=x$	8	$y=-x^2+3x$ $y=2x+1$

9 The range of a siren is a circular region bounded by equation: $x^2 + y^2 = 225$. A straight road within the service area is represented by $y = 3x + 15$. Find the length of the road that lies within the range of the siren service. (Assume 1 unit=1 m. Express the answer to the nearest tenth of a mile).

10 Bob is traveling on a highway at a constant rate of 70 miles per hour. Michael accelerates at a constant rate to catch Bob. The distance d, in miles, that Michael travels as a function of time t, in hours, since Bob has passed is given by $d = 4900t^2$. Write and solve a system of equations to calculate how long it takes Michael to catch up to Bob.

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

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