

C2-4.5a)

Name:

Homework Questions 5 – Finding Points of Intersections for Circles

1. Find where the circles below meet the x-axis

a) $(x + 2)^2 + (y - 5)^2 = 50$

3, -7

b) $((x - 3)^2 + (y + 6)^2 = 52$

7, -1

2. Find where the circles below meet the y-axis

a) $(x - 3)^2 + (y - 1)^2 = 10$

2, 0

b) $(x + 4)^2 + (y - 5)^2 = 25$

8, 2

3. Find the points of intersection of the following line and circle

$x^2 + y^2 = 4$ $y = x + 2$

(0, 2) (-2, 0)

4. Show that the line below is a tangent to the circle

$y = 5$ $(x - 1)^2 + (y - 2)^2 = 9$

(1, 5)