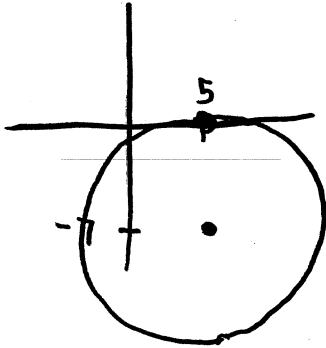


# CHALLENGE PROBLEMS

#39



CENTER (5, -7)

RADIUS IS 7

EQ OF CIRCLE IS

$$(x-5)^2 + (y+7)^2 = 49$$

#43

(a) JUST ONE POINT (2, -3)

(b) CIRCLE WITH  
CENTER  $(\frac{1}{2}, -\frac{3}{2})$   
RADIUS 2

(c) NO PTS WOULD SATISFY  
THE EQUATION

(d) CIRCLE WITH  
CENTER  $(0, \sqrt{3})$   
RADIUS  $\sqrt{5}$