

4.26
k8

$$3x - 4y + 7 = 0$$

$$r = \sqrt{(a-2)^2 + (2-a-1)^2}$$
$$r = \frac{|3a + 4a - 8 + 7|}{5}$$

$$\rightarrow 25(a^2 + 4a + 4 + a^2 - 2a + 1) = (7a - 1)^2$$

$$50a^2 + 50a + 125 = 49a^2 - 14a + 1$$

$$a^2 + 64a + 124 = 0$$

$$a = -62, a = -2$$

$$\downarrow$$
$$r = 87$$

$$\downarrow$$
$$r = 3$$

$$(x+2)^2 + (y+4)^2 = 9$$