$$d = r \Leftrightarrow \frac{|4\cdot a + 3\cdot \frac{1}{2}a - 24|}{\sqrt{4^2+3^2}} = \frac{|\frac{11}{2}a - 24|}{5} = |\tfrac{1}{2}a| \;|\cdot 5$$

$$\Leftrightarrow |\tfrac{11}{2}a - 24| = 5|\tfrac{1}{2}a| \qquad (5 \geq 0)$$

$$\Leftrightarrow |\tfrac{11}{2}a - 24| = |5\cdot\tfrac{1}{2}a| \qquad |4| = |7| \;\Rightarrow \pm 7$$

$$\Leftrightarrow \tfrac{11}{2}a - 24 = \tfrac{5}{2}a \text{ tai } \tfrac{11}{2}a - 24 = -\tfrac{5}{2}a$$

$$\Leftrightarrow a = 8 \text{ tai } a = 3$$

$a=8$: $(x-8)^2 + (y-4)^2 = 4^2$

$a=3$: $(x-3)^2 + (y-\frac{3}{2})^2 = (\frac{3}{2})^2$