Equation of a Circle: Question 8

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$$(x - h)^2 + (y - k)^2 = r^2 \tag{1}$$
$$(x - 6)^2 + (y - 4)^2 = r^2 \tag{2}$$
$$(2 - 6)^2 + (1 - 4)^2 = r^2 \tag{3}$$
$$r^2 = 16 + 9 = 25 \tag{4}$$
$$r = \sqrt{25} = 5 \tag{5}$$
$$(x - 6)^2 + (y - 4)^2 = 25 \tag{6}$$