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a)

$$A(1;2), r=5$$

$$(x-1)^2 + (x+2)^2 = 25$$

b)

$$\vec{AB} = \sqrt{4^2 + 2^2} = 2\sqrt{5}$$

$$(x+1)^2 (x-2)^2 = 2\sqrt{5}$$

c)

$$A(1; -4), r = 4$$

$$(x-1)^2 + (x+4)^2 = 16$$