

Show the two given circles are similar by stating the necessary transformations from C to D.

1. C: center (2, 3) radius 5; D: center (-1, 4) radius 10.
2. C: center (0, -3) radius 2; D: center (-2, 5) radius 6.
3. C: center (-2, 8) radius 4; D: center (0, 4) radius 9.
4. C: center (2, 8) radius 5; D: center (-2, 4) radius 1.
5. C: center (12, 32) radius 15; D: center (-1, 4) radius 10.
6. C: center (2, 0) radius 7; D: center (-1, 0) radius 4.

For classes familiar with the equation of a circle.

7. C:  $(x+3)^2 + (y-2)^2 = 9$ ; D:  $(x-1)^2 + (y-5)^2 = 25$
8. C:  $(x-3)^2 + (y-4)^2 = 49$ ; D:  $(x+1)^2 + y^2 = 1$
9. C:  $(x+5)^2 + (y-7)^2 = 9$ ; D:  $(x+1)^2 + (y+1)^2 = 5$