

- Write the equation of a circle having  $(2, -3)$  and  $(14, 25)$  as the endpoints of its diameter.
- Find the center and radius of  $x^2 + y^2 + 6x - 12y - 4 = 0$ .
- Find the length of a  $130^\circ$  arc in a circle of diameter 30 inches.

**Find the value of each variable. Round to tenths if needed.**

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