## **Perpendicular bisectors**

- 1. Let A(2, 6) and B(0, -4) be end points of line segment AB.
- a) Find the slope of the line segment AB.

- b) If line *k* is perpendicular to line segment AB, find the slope of line *k*.
- c) Find the midpoint of line segment AB.

- d) If line k passes through the midpoint of line segment AB, find an equation of the line k.
- 2. Let C(0, 4) and D(6, -2) be end points of line segment CD. Find an equation of a perpendicular bisector of line segment CD.