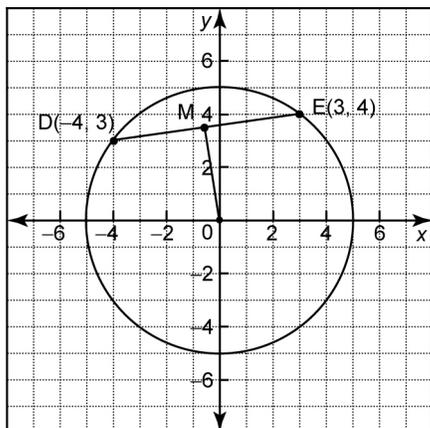


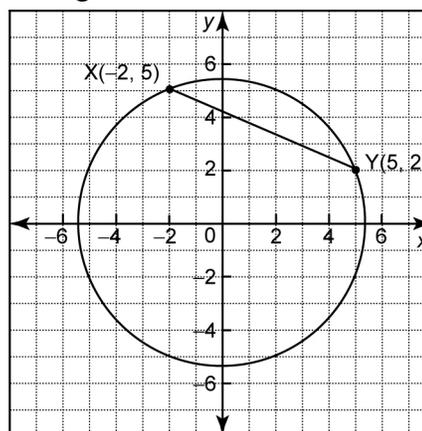
Section 3.5 Practice Master

- Find the coordinates of the midpoint, M , of DE .
 - Find the slope of chord DE .
 - Verify that OM is perpendicular to DE .



- Verify that the points $K(-2, 4)$, $L(4, 4)$, and $M(3, -1)$ are equidistant from the point $C(1, 2)$.
 - Draw the circle that passes through the points K , L , and M .
- Explain how you know that the origin is the centre of the circle represented by $x^2 + y^2 = 34$.
 - Verify that the points $A(-3, 5)$ and $B(-5, -3)$ lie on the circle.
 - Verify that the line through the origin and the midpoint of the chord AB is perpendicular to the chord.

- Verify that the centre of this circle lies on the right bisector of the chord XY .



- Find the radius of the circle.
- Find the centre of the circle that passes through the points $D(-5, 6)$, $E(-2, 7)$, and $F(2, 5)$.
- Use Technology** Use geometry software to answer question 5. Outline your method.
- For this circle, the diameter is AB and a point on the circle is C . Verify that $\angle ACB = 90^\circ$. Explain your reasoning.

