Closed book. No calculators are to be used for this quiz.
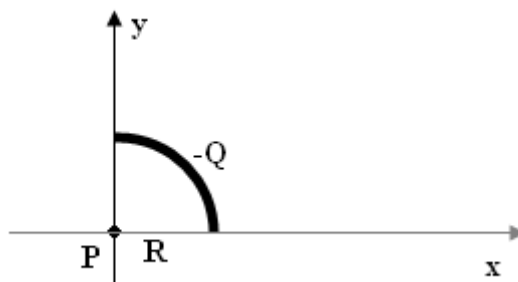**Quiz duration: 15 minutes**

Name: **Student ID:**   **Signature:**

Negative electric charge –Q is distributed uniformly around a quarter of a circle of radius R.
What are the components of the electric field E at point P.

Closed book. No calculators are to be used for this quiz.
Quiz duration: 15 minutes

Name: **Student ID:**   **Signature:**

Negative electric charge –Q is distributed uniformly around a 120 degree circular arc of radius R. What are the components of the electric field E at point P.

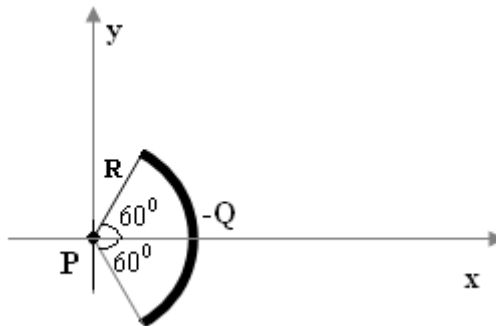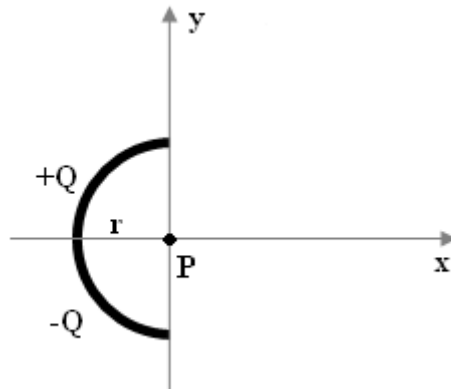**Closed book. No calculators are to be used for this quiz.**
Quiz duration: 15 minutes

Name: **Student ID:**   **Signature:**

A thin glass rod is bent into a semicircle of radius r. A charge +Q is uniformly distributed along the upper half, and a charge –Q is uniformly distributed along the lower half. Find the magnitude and direction of the electric field E at point P.

PHYS 102:General PhysicsII   KOÇ UNIVERSITY   Spring Semester 2012

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Section 4   Quiz 1   16 February 2012

Closed book. No calculators are to be used for this quiz.
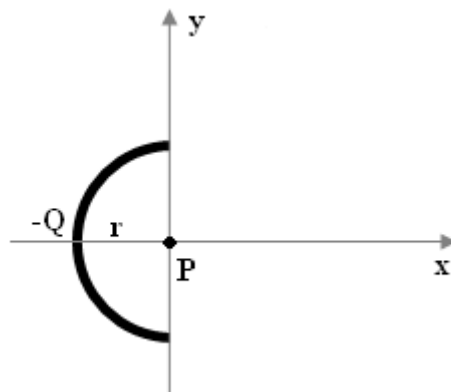**Quiz duration: 15 minutes**

Name: Student ID: Signature:

Negative electric charge –Q is distributed uniformly around a semicircle of radius r. Find the magnitude and direction of the electric field E at point P.

Closed book. No calculators are to be used for this quiz.
Quiz duration: 15 minutes

Name: **Student ID:**   **Signature:**

Positive electric charge +Q is distributed uniformly around a semicircle of radius r. Find the magnitude and direction of the electric field E at point P.