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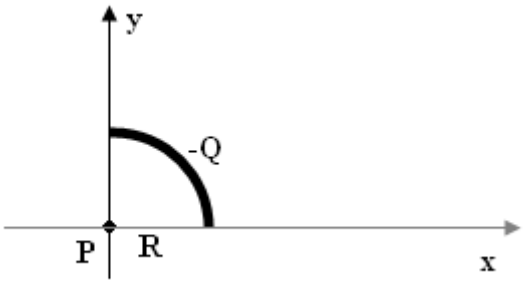
Section 4 Quiz 1 13 February 2014

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 in terms of Q, ε_0 and R.



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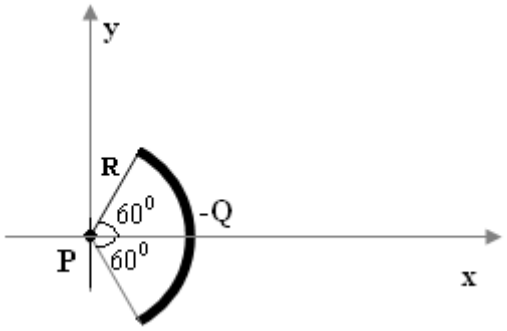
Section 5 Quiz 1 13 February 2014

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 in terms of Q, ε_0 and R.



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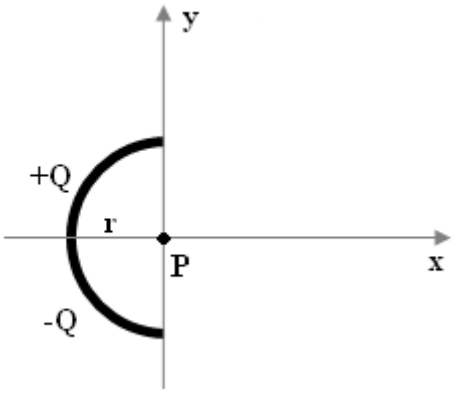
Section 6 Quiz 1 13 February 2014

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 in terms of Q, ε_0 and r.



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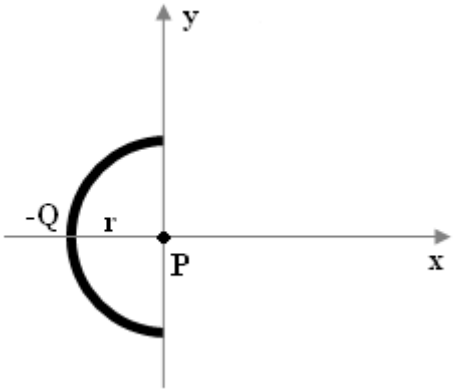
Section 1 Quiz 1 13 February 2014

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 in terms of Q, ε_0 and r.



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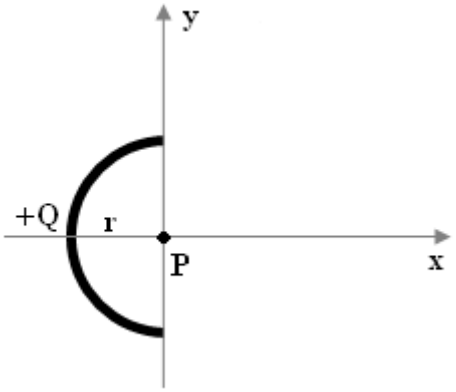
Section 2 Quiz 1 13 February 2014

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 in terms of Q, ε_0 and r.



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Section 3 Quiz 1 13 February 2014

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

Name: Student ID: Signature:

A charge with uniform linear charge density=m $8x10^{-9}$ C/m is distributed along the x-axis from x=0 to x=3 m. Determine the magnitude of the electric field at a point on the x-axis at x=4 m.