**Physics 30 – Lesson 15**

**Electric Fields**

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**Practice problems**

1)

2)

The direction of the electric field will be toward the charge.

The assumption made is that the charge is concentrated at the centre of the sphere and acts like a point charge.

3)

4)

5)

**Assignment**

1)

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2)

/4

3) A small test charge would not interfere with the electric field being mapped.

/1



4)

in the center 

/4

5)

The assumption made is that the charge is concentrated at the centre of the sphere and acts like a point charge.

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6)

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7)

/ 2

8)



9)



10)

35 cm

35 cm

/10

11)

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because the electric field inside a conductor is zero



12)

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13) Since the electric field points into the Earth, the Earth has a negative electric field

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