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| **Problem 26.32** |
| A 2.4 {\rm g} plastic bead charged to -3.0 {\rm nC} and a 4.5 {\rm g} glass bead charged to 18.5 {\rm nC} are 2.3 {\rm cm} apart (center to center).

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| Part A |  |
| What are the magnitudes of the accelerations of the plastic bead and the glass bead? **Express your answers using two significant figures. Enter your answers numerically separated by a comma.**

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| --- | --- | --- | --- | --- | --- | --- |
| ANSWER: |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |   a_{\rm plastic}, a_{\rm glass} = | ***Answer not displayed*** |   {\rm m/s^2} |  |

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| Part B |  |
| What are the directions of the accelerations of the plastic bead and the glass bead?

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| ANSWER: |

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|  |  |
| --- | --- |
|  | The beads are moved in the same direction. |
|  | The beads are repulsed to one another. |
|  | The beads are attracted to one another. |

 |  | ***Answer not displayed*** |

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