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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).   |  |  | | --- | --- | | 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.**   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | ANSWER: | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | a_{\rm plastic}, a_{\rm glass} = | ***Answer not displayed*** | {\rm m/s^2} |  | | | | | Part B |  | | What are the directions of the accelerations of the plastic bead and the glass bead?   |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ANSWER: | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | |  |  | | --- | --- | |  | 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*** | | | | |