**Noteguide for Fields in Linear Arrays - Videos 16G1 Name**

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|  Field: g - g near a point mass toward mass (N/kg)G - 6.67x10-11 Nm2kg-2M - the mass (kg)r - distance from the point mass (m) | Field:  (not in data packet)E - E near a point charge away from charge (N/C)k - 8.99x109 Nm2C-2q - the charge (C)r - distance from the point charge (m) |



Example: What is the electric field at the x ?

Whiteboards - Work these out - if you don't get the right answer, watch the video to see how to do it.

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| 1. Find the gravitational field at p: (49.0 N/kg to the left)2.70x1024 kg8.20x1024 kgmm1.80x106 m (p)9.10x106 m |
| 2. Find the electrical field at p: (51.6 N/C to the right)21.0 m (p)13.0 m+-+9.10 µC-2.30 µC |