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Area = $| \mathbf{a} \times \mathbf{b} | = | (1 - 15)\mathbf{a}_x + (6 + 4)\mathbf{a}_y + (-20 - 2)\mathbf{a}_z |$

$2 2 2 5 1 2$ (b) $9 1 1 = | (-14, 10, -22) | = 196 + 100 + 484 =$

$13.96 2 2$ Prob. 1.13 1.17 Given $r_P = (-1, 4, 8)$, $r_Q = (2, -1, 3)$, r_R

$= (-1, 2, 3)$ (a) $| PQ | = 9 + 25 + 25 = 7.6811$ (b) $PR = -2a_y -$

$5a_z$

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Taking a vector-first approach, this text provides a balanced presentation of a host of topics including electrostatics, magnetostatics, fields, waves, and applications like transmission lines, waveguides, and antennas. The new edition includes new Application Notes detailing real-world connections, a revised math pre-test for professors to assess students' mathematical skills, and new and updated problems.

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