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web components of vectors for the analytical method of vector addition and subtraction we use some simple geometry and trigonometry instead of using a ruler and protractor as we did for graphical methods however the graphical method will still come in handy to visualize the problem by drawing vectors using the head to tail method

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web numerically the solution is  $\hat{d}_0 = \frac{1}{\sqrt{2}}(\hat{d}_1 + \hat{d}_2)$   $\hat{d}_1 = \frac{1}{\sqrt{2}}(\hat{d}_0 + \hat{d}_2)$   $\hat{d}_2 = \frac{1}{\sqrt{2}}(\hat{d}_0 - \hat{d}_1)$  find the unit vectors that point from a to the other points b

to g in question 2 express each vector in component ij notation

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web 2 review of vector analysis electromagnetic field theory is the study of forces between charged particles resulting in energy conversion or signal transmission and reception these forces vary in magnitude and direction with time and throughout space so that the theory is a heavy user of vector differential and integral calculus