







FREDERICK FISHER AND PARTNERS ARCHITECTS



1. Ocak 2014

$$\vec{a} \times \vec{b} = (a_2 b_3 - b_2 a_3) \vec{i} + (a_3 b_1 - b_3 a_1) \vec{j} + (a_1 b_2 - b_1 a_2) \vec{k}$$
$$(0, 1, 2) \times (2, 1, 4) = (1 \cdot 4 - 2 \cdot 2) \vec{i} + (2 \cdot 2 - 0 \cdot 4) \vec{j} + (0 \cdot 1 - 2 \cdot 2) \vec{k}$$
$$(4 - 2) \vec{i} + (4 - 0) \vec{j} + (0 - 4) \vec{k}$$
$$\vec{c} = 2\vec{i} + 4\vec{j} - 4\vec{k}$$
$$c = \sqrt{2^2 + 4^2 + (-4)^2} = \sqrt{36} = 6$$

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$$r = \frac{1}{\sqrt{1+1}} = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$
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