M R Ahmed Mahdy



استاتبكا	فيزياء		
الكسترونيات	دوائر کھربين		
هيدروليكا	مبكانبكا الانشائات		

مدرس خصوصي

حضورى

اونلاين

بحصل الطالب علي



· ملخص للمادة Pdf للمذكرة واطراجعة

· عاضرات مباشرة على برنامج زووم مناقشت الأجزاء الغبر مفهومت

. تواصل مستمر مع معلم اطادة

للنواصل

0567630097





Vector Notation

Text uses bold with arrow to denote a vector: A



Also used for printing is simple bold print: A

When dealing with just the magnitude of a vector in print, an italic letter will be used: \vec{A} or $|\vec{A}| = \sqrt{2^2 r y^2}$

- The magnitude of the vector has physical units.
- The magnitude of a vector is always a positive number.

When handwritten, use an arrow:

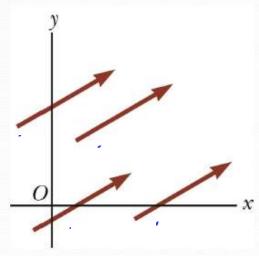
Equality of Two Vectors

Two vectors are *equal* if they have the same magnitude and the same direction.

 $\vec{A} = \vec{B}$ if A = B and they point along parallel lines

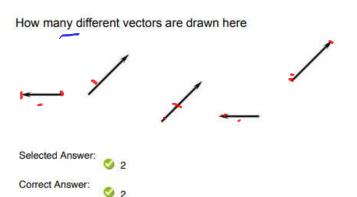
All of the vectors shown are equal.

Allows a vector to be moved to a position parallel to itself



Question 9

0.5 out of 0.5 points



0.5 درجة من 0.5 درجة

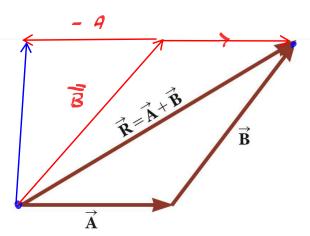
السؤال 3

How many different vectors are drawn here



Adding Vectors

Adding Two Vectors Graphically



Components of a Vector, Introduction

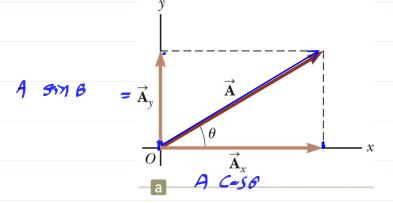
$$\frac{1}{2} \int_{\infty}^{\infty} \int_{0}^{1} \int_{0}^{1} dx = \frac{1}{2}$$

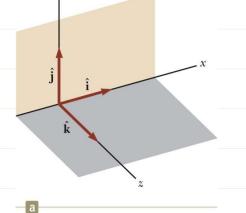
$$\frac{1}{2} \int_{0}^{\infty} \int_{0}^{1} dx = \frac{1}{2}$$

$$\frac{1}{2} \int_{0}^{\infty} \int_{0}^{1} dx = \frac{1}{2}$$

$$\vec{A} = A_z \hat{i} + A_J \hat{j} + A_z \hat{k}$$

$$\vec{B} = B_z \hat{i} + B_J \hat{j} + B_z \hat{k}$$





$$\vec{A} + \vec{B} = (A_x + B_x)\hat{i} + (A_y + B_y)\hat{i} + (A_z + B_z)\hat{i}$$

Example

Two vectors are given by $\overrightarrow{A}=2\hat{i}+3\hat{j}$ and $\overrightarrow{B}=4\hat{i}-\hat{j}$. Calculate

