

Math 12 Review for vectors test

Name: Key  
Date: \_\_\_\_\_ Period: \_\_\_\_\_

1) Given a vector  $v$  with magnitude 18 and a direction angle of 330 degrees, find the component form of  $v$ . Show exact value.

$$18 \left( \cos 330^\circ i + \sin 330^\circ j \right) = 18 \frac{\sqrt{3}}{2} i + 18 \left(-\frac{1}{2}\right) j$$

1)  $\langle 27\sqrt{3}, -9 \rangle$

2) A vector  $v$  has a magnitude of 4 and makes an angle of 240 degrees with the positive x-axis. Find the component form of  $v$ .

a)  $\left(\frac{1}{2}, \frac{\sqrt{3}}{2}\right)$    b)  $\left(-\frac{1}{2}, -\frac{\sqrt{3}}{2}\right)$    c)  $(4, -4\sqrt{3})$    d)  $(2, 2\sqrt{3})$    **e)  $(-2, -2\sqrt{3})$**

$$4 \left( \cos 240^\circ i + \sin 240^\circ j \right) = 4 \left(-\frac{1}{2}\right) i + 4 \left(-\frac{\sqrt{3}}{2}\right) j = \langle -2, -2\sqrt{3} \rangle$$

2)  $E$

3) Given  $u=4i+2j$ ,  $w=4-2j$ , and  $v=2u-3w$ , find the component form of  $v$ .

$$2(4i+2j) - 3(4i-2j) = 8i+4j - 12i+6j = -4i+10j$$

3)  $\langle -4, 10 \rangle$

4) A vector has an initial point of (2,5) and a terminal point of (0, -4). Find the component form of  $v$ .

a)  $(2,9)$    b)  $(9,2)$    c)  $(2,j)$    **d)  $(-2, -9)$**    e) None of these.

$$\text{End} - \text{Start} = \langle 0-2, -4-5 \rangle = \langle -2, -9 \rangle$$

4)  $D$

5) The direction angle for the linear combination of  $-\sqrt{3}i + 1j$  is:

a) 30   b) 60   c) 120   **d) 150**   e) 300   f) 330   g) None of these

$\tan \theta_r = \frac{1}{\sqrt{3}} \Rightarrow \theta_r = 30^\circ \Rightarrow \theta = 150^\circ$

5)  $D$

6) A vector has an initial point of (4,7) and a terminal point of (3, -2). Find its magnitude.

a)  $\sqrt{12}$    **b)  $\sqrt{82}$**    c)  $\sqrt{79}$    d)  $\sqrt{26}$    e) None of these

$$\|v\| = \sqrt{(3-4)^2 + (-2-7)^2} = \sqrt{(-1)^2 + (-9)^2} = \sqrt{1+81} = \sqrt{82}$$

6)  $B$

7) Find the unit vector in the direction of  $v = -2i + 4j$ .

a)  $(-2\sqrt{20}, 4\sqrt{20})$    b)  $(-2\sqrt{5}, 2\sqrt{5})$    c)  $\left(\frac{4}{\sqrt{20}}, \frac{16}{\sqrt{20}}\right)$    **d)  $\left(-\frac{\sqrt{5}}{5}, 2\frac{\sqrt{5}}{5}\right)$**    e) None of these

unit vector  $= \frac{v}{\|v\|} = \frac{-2i+4j}{\sqrt{(-2)^2+4^2}} = \frac{-2i+4j}{\sqrt{20}} = \left\langle -\frac{2}{\sqrt{20}}, \frac{4}{\sqrt{20}} \right\rangle = \left\langle -\frac{1}{\sqrt{5}}, \frac{2}{\sqrt{5}} \right\rangle = \left\langle -\frac{\sqrt{5}}{5}, \frac{2\sqrt{5}}{5} \right\rangle$

ans in rational form 7)  $D$

8) Find the magnitude of  $u = 3i-5j$

$$\|u\| = \sqrt{(3)^2 + (-5)^2} = \sqrt{9+25} = \sqrt{34}$$

8)  $\sqrt{34}$

9) Find to the nearest degree, the angle between vectors  $\langle 4,2 \rangle$  and  $\langle 5,1 \rangle$

9)  $\theta \approx 15^\circ$

$$\cos \theta = \frac{u \cdot v}{\|u\| \|v\|} = \frac{20+2}{\sqrt{20} \cdot \sqrt{26}} = \frac{22}{\sqrt{520}} \approx .9648 \approx 15.25^\circ$$

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**DJ Losen**



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