

Unit 1.1 Review – Additional Topics in Trigonometry – Homework

1. Given conditions, the vector is found below using either origin and without using trigonometry.

a. $\vec{p} = 2\vec{i} + 3\vec{j}$



b. $\vec{p} = -4\vec{j}$



c. $\vec{p} = \left[\frac{\pi}{2} \right]$



2. Find and show the vector's terminal point P and transformation $\vec{p}$. Also find the magnitude of $\vec{p}$.

a. $\vec{p} = 2\vec{i} + 3\vec{j}$

Initial Point: $(0,0)$

b. $\vec{p} = -4\vec{j}$

Initial Point: $(0,0)$

c. $\vec{p} = \left[\frac{\pi}{2} \right]$

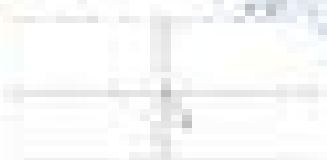
Initial Point: $(0,0)$



d. $\vec{p} = 4\vec{i} + 3\vec{j}$

e. $\vec{p} = 3\vec{i} + 4\vec{j}$

f. $\vec{p} = 4\vec{i} + 3\vec{j}$



3. If magnitude of the vector $\vec{p}$ with initial point $P_1(x_1, y_1)$ and terminal point $P_2(x_2, y_2)$ is determined, compute the vector's initial point $P_1(x_1, y_1)$ and terminal point $P_2(x_2, y_2)$.

a. $\vec{p} = 4\vec{i} + 3\vec{j}$

Initial Point: $(0,0)$

Terminal Point: $(4,3)$

Magnitude: 5

Direction: $\tan^{-1} \frac{3}{4}$

Angle: 36.87°

b. $\vec{p} = 3\vec{i} + 4\vec{j}$

Initial Point: $(0,0)$

Terminal Point: $(3,4)$

Magnitude: 5

Direction: $\tan^{-1} \frac{4}{3}$

Angle: 56.31°

c. $\vec{p} = 4\vec{i} + 3\vec{j}$

Initial Point: $(0,0)$

Terminal Point: $(4,3)$

Magnitude: 5

Direction: $\tan^{-1} \frac{3}{4}$

Angle: 36.87°

Unit 11 Additional Topics In Trigonometry Homework

N Colangelo



Unit 11 Additional Topics In Trigonometry Homework:

Decoding **Unit 11 Additional Topics In Trigonometry Homework**: Revealing the Captivating Potential of Verbal Expression

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3

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