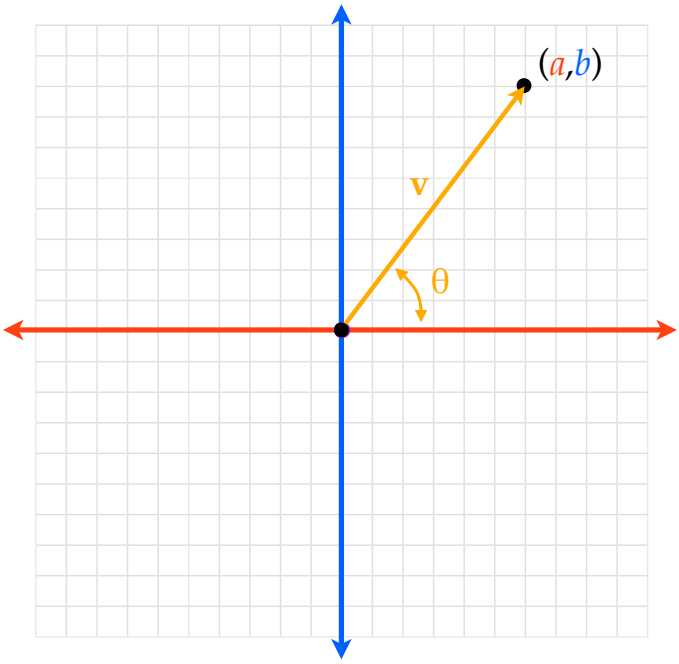
The Direction of Vectors in $a\mathbf{i} + b\mathbf{j}$ Form

Name _____

Date _____ Period _____

Given $\mathbf{v}$ is in standard position and expressed as $\mathbf{v} = a\mathbf{i} + b\mathbf{j}$, then...

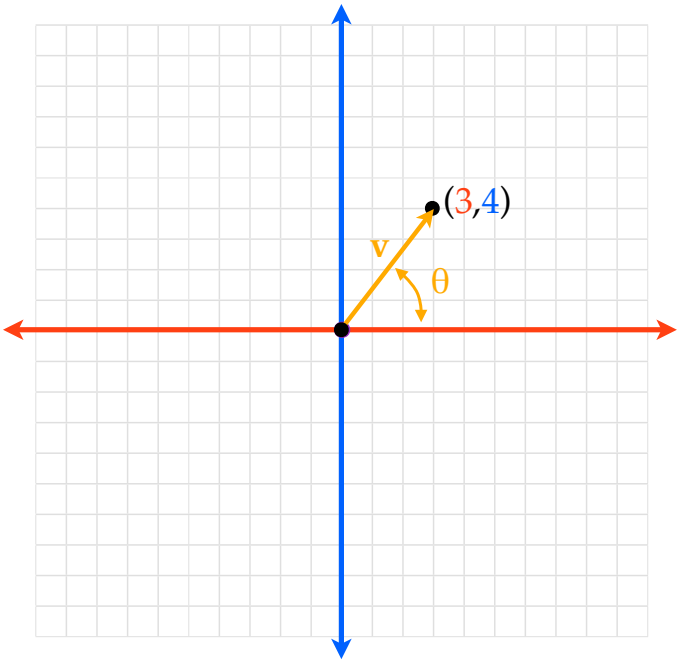
$$\tan\theta = \frac{b}{a} \qquad -90° < \theta < 90°$$



Given $\mathbf{v}$ is in standard position and expressed as $\mathbf{v} = a\mathbf{i} + b\mathbf{j}$, then...

$$\tan\theta = \frac{b}{a} \qquad -90° < \theta < 90°$$

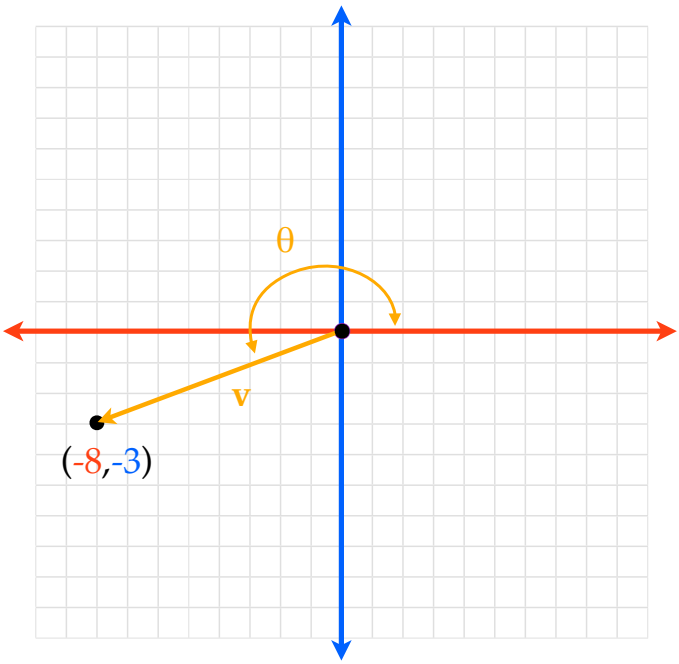
$$\mathbf{v} = 3\mathbf{i} + 4\mathbf{j}$$



Given **v** is in standard position and expressed as **v** = a**i** + b**j**, then...

$$\tan\theta = \frac{b}{a} \qquad -90° < \theta < 90°$$

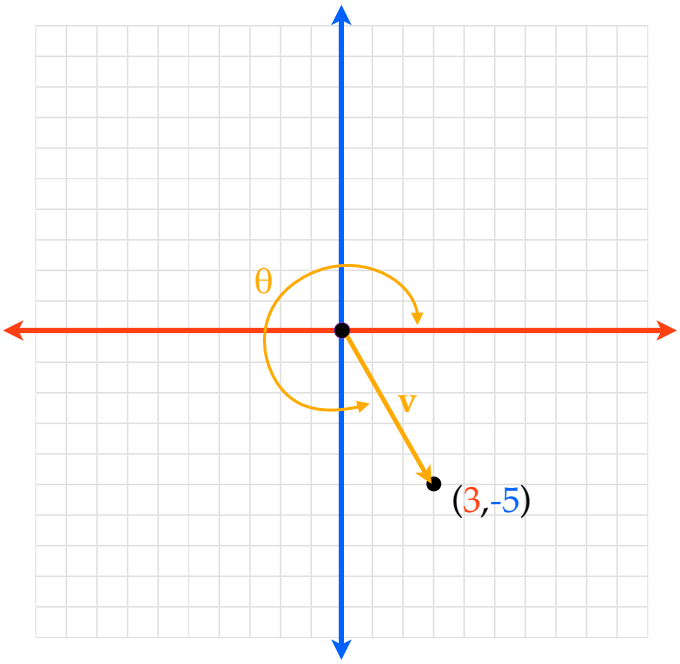
v = -8**i** – 3**j**



Given **v** is in standard position and expressed as **v** = a**i** + b**j**, then...

$$\tan\theta = \frac{b}{a} \qquad -90° < \theta < 90°$$

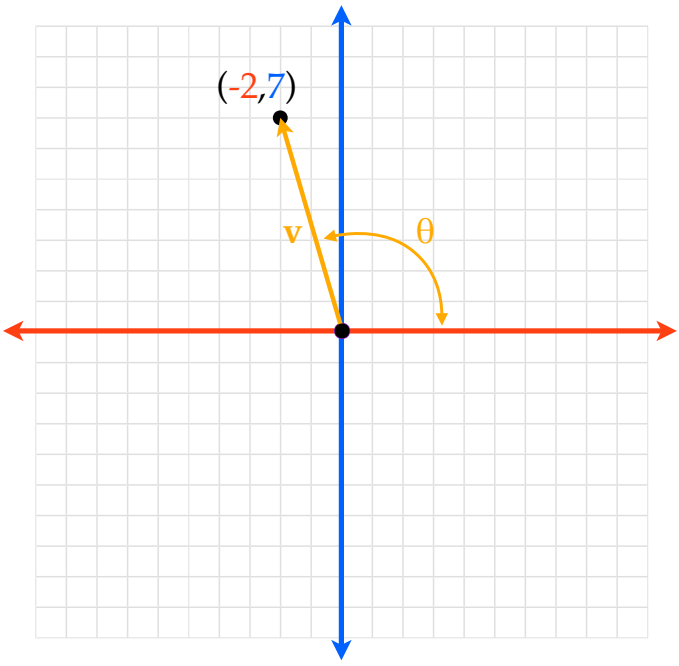
v = 3**i** – 5**j**



Given **v** is in standard position and expressed as **v** = a**i** + b**j**, then...

$$\tan\theta = \frac{b}{a} \qquad -90° < \theta < 90°$$

v = -2**i** + 7**j**



Given **v** is in standard position and expressed as **v** = a**i** + b**j**, then...

$$\tan\theta = \frac{b}{a} \qquad -90° < \theta < 90°$$