

Fill in the Blanks

Position Vectors

OAB is a triangle. O is the origin.

Coordinates of A	$\overrightarrow{OA}$	Coordinates of B	$\overrightarrow{OB}$	$\overrightarrow{AB}$	$ \overrightarrow{AB} $	Angle AOB	Area OAB
(3, 6)	$3i + 6j$	(5, 1)		$2i - 5j$		52.1°	13.5
(8, 2)		(3, 6)				49.4°	
(-5, 1)		(-2, -3)					
	$i + j$		$4i - 2j$				
	$-i + 6j$		$-3i + 3j$				
(4, 2)			$-5i + j$				
		(5, 6)		$4i + 8j$			
	$-3i - 4j$			$2i + 12j$			
$(\sqrt{3}, 3)$		$(-\sqrt{3}, 1)$					