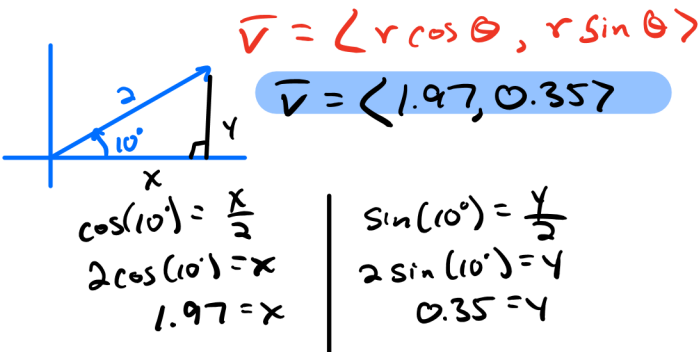


V5 - Polar to Component (Right Angle Trig)

Given a vector in polar form, find the vector's component form.

1. $\vec{v} = (2, 10^\circ)$



2. $\vec{b} = (5, 115^\circ)$

$\vec{b} = \langle 5 \cos(115^\circ), 5 \sin(115^\circ) \rangle$
 $\vec{b} = \langle -2.11, 1.29 \rangle$

3. $\vec{u} = (10, 222^\circ)$

$\vec{u} = \langle 10 \cos(222^\circ), 10 \sin(222^\circ) \rangle$
 $\vec{u} = \langle -7.43, -6.69 \rangle$

4. $\vec{c} = (20, 333^\circ)$

$\vec{c} = \langle 20 \cos(333^\circ), 20 \sin(333^\circ) \rangle$
 $\vec{c} = \langle 17.82, -9.08 \rangle$

5. $\vec{w} = (7, 11^\circ)$

$\vec{w} = \langle 7 \cos(11^\circ), 7 \sin(11^\circ) \rangle$
 $\vec{w} = \langle 6.87, 1.34 \rangle$

6. $\vec{s} = (12, 175^\circ)$

$\vec{s} = \langle 12 \cos(175^\circ), 12 \sin(175^\circ) \rangle$
 $\vec{s} = \langle -11.95, 1.05 \rangle$

7. $\vec{w} = (1, 200^\circ)$

$\vec{w} = \langle 1 \cos(200^\circ), 1 \sin(200^\circ) \rangle$
 $\vec{w} = \langle -0.94, -0.34 \rangle$

8. $\vec{s} = (4, 340^\circ)$

$\vec{s} = \langle 4 \cos(340^\circ), 4 \sin(340^\circ) \rangle$
 $\vec{s} = \langle 3.76, -1.37 \rangle$