Example #2 p. 2 Ch. 9

Find the components of v having |v| = 14.5 and $\theta = 220^{\circ}$

Find the horizontal component |v| = 14.5 and $\theta = 220^{\circ}$

• The horizontal component is the x component which is given by $a = |v| \cos \theta$ $a = 14.5 \cos 220^{\circ} \approx -11.1$

Find the vertical component |v| = 14.5 and $\theta = 220^{\circ}$

• The vertical component is the y component which is given by $b = |v| \sin \theta$

 $b = 14.5 \sin 220^{\circ} \approx -9.3$

Thus, v is

$$v = < -11.1, -9.3 >$$