Answer on Question #42327, Math, Geometry

The vector v is shown in the following figure:



We should find coordinates (vx, vy) of its end. By definition Substituting values we get vx = v cos α , vy = v sin α . vx = v cos α = 230 * cos 200° = 230 * (-0.93969) = -216.13 km/h, vy = v sin α = 230 * sin 200° = 230 * (-0.34202) = -78.665 km/h. **Answer**: (-216.13, -78.665)