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Mhr Calculus And Vectors 12 Solutions Chapter 6

Chapter 6 Section 5: Resolution of Vectors into Rectangular Components

Chapter 6 Section 5 Question 1 Page 349

a) $\begin{pmatrix} 500 \cos 25^\circ \\ 500 \sin 25^\circ \end{pmatrix}$
The horizontal component is approximately 452.8 N.

$\begin{pmatrix} 500 \cos 25^\circ \\ 500 \sin 25^\circ \end{pmatrix}$
The vertical component is approximately 209.7 N.

b) $\begin{pmatrix} 21 \cos 56^\circ \\ 21 \sin 56^\circ \end{pmatrix}$
The horizontal component is approximately 11.7 N.

$\begin{pmatrix} 21 \cos 56^\circ \\ 21 \sin 56^\circ \end{pmatrix}$
The vertical component is approximately 17.4 N.

c) $\begin{pmatrix} 1200 \cos 65^\circ \\ 1200 \sin 65^\circ \end{pmatrix}$
The horizontal component is approximately 507.6 N.

$\begin{pmatrix} 1200 \cos 65^\circ \\ 1200 \sin 65^\circ \end{pmatrix}$
The vertical component is approximately 1034.4 N.

d) $\begin{pmatrix} 17 \cos 75^\circ \\ 17 \sin 75^\circ \end{pmatrix}$
The horizontal component is approximately 4.4 N.

$\begin{pmatrix} 17 \cos 75^\circ \\ 17 \sin 75^\circ \end{pmatrix}$
The vertical component is approximately 16.4 N.