p. 511: 29-34, 41, 42, 45
(29) $\langle 16.31,7.61\rangle$
(30) $\langle 8.03,11.47\rangle$
(31) $\langle-14.52,44.70\rangle$
(32) $\langle-23.72,22.92\rangle$ (33) $|v|=5, \theta=53.13^{\circ} \quad$ (34) $|v|=\sqrt{5}, \theta=116.57^{\circ}$
(41) $\langle-223.99,480.34\rangle$ (42) $\langle 79.88,-453.01\rangle$ (45) $\langle 3.42,9.40\rangle$
(29)


$$
\langle 16.31,7.61\rangle 1^{\cos 15^{\circ}}=\frac{x}{18} \Rightarrow x=16.31
$$

(31)


$$
\langle-14.52,44.70\rangle
$$

(33)


$$
\begin{aligned}
& |v|=\sqrt{3^{2}+4^{2}} \\
& |v|=\sqrt{25} \\
& ||v|=5 \\
& \tan \theta=\frac{4}{3} \\
& \theta=53.13^{\circ}
\end{aligned}
$$

(30)


$$
\begin{aligned}
& \sin 55=\frac{y}{14} \Rightarrow y=11.47 \\
& \cos 55=\frac{x}{14} \Rightarrow x=8.03
\end{aligned}
$$

$$
\langle 8.03,11.47\rangle
$$



$$
\begin{aligned}
& \sin 44=\frac{y}{33} \Rightarrow y=22.92 \\
& \cos 44=\frac{x}{33} \Rightarrow x=23.74
\end{aligned}
$$

$$
\langle-23.74,22.92\rangle
$$



$$
\begin{aligned}
& |v|=\sqrt{(-1)^{2}+2^{2}} \\
& |v|=\sqrt{5} \\
& \tan \theta=\frac{2}{1} \quad 180-63.43 \\
& \theta=63.43 \quad 116.57^{\circ}
\end{aligned}
$$

(41)

(42)
(45)

$$
\begin{aligned}
& \begin{cases}1 & \sin 70=\frac{y}{10} \Rightarrow y=9.40 \\
\frac{10}{10} \cdot \\
\frac{1 y}{x}! & \cos 70=\frac{x}{10} \Rightarrow x=3.42 \\
\langle 3.42,9.40\rangle\end{cases}
\end{aligned}
$$

