Cecil H.

$6.4 A$
1
2
4
5

Wook
ว-Y A (1)

Ch. 8 Short A nswer
(1) $\sin ^{-1} \sin \theta=\frac{\sin -1}{2}$

$$
\theta=30^{\circ}
$$

(2)

$$
\begin{aligned}
& 5 \sqrt{3} \cdot 4 \sqrt{2} \\
& 20 \sqrt{6}
\end{aligned}
$$

(3) $\sqrt{2940}$

$$
\begin{array}{cl}
2940 & =\sqrt{(2 \cdot 2 \cdot 3 \cdot 5 \cdots 7} \\
\begin{array}{c}
294 \\
\end{array} & 2 \cdot 7 \sqrt{3 \cdot 5} \\
& 14 \sqrt{15}
\end{array}
$$

(4)

$$
\begin{aligned}
& 32^{2}=\sqrt{4 x}^{2} \\
& \frac{1024}{4}=\frac{4 x}{4} \\
& 256=x
\end{aligned}
$$

(5)

$$
\begin{aligned}
& 5 \sqrt{3} \cdot 2 \sqrt{8} \\
& 10 \sqrt{24} \cdot \\
& 10 \sqrt{(2 \cdot 2) 2 \cdot 3} \\
& 10 \cdot 2 \sqrt{2 \cdot 3} \\
& 20 \sqrt{6}
\end{aligned}
$$

(6)


$$
\begin{aligned}
& \frac{\cos 75}{1}=\frac{x}{32} \\
& x=32 \cos 75 \\
& x=8.3 \mathrm{ft} .
\end{aligned}
$$

(ㄱ)


$$
\cos \theta=\frac{4}{5} \quad \sin \theta=\frac{3}{5}
$$

$$
\tan \theta=\frac{3}{4}
$$

$$
\theta \approx 36.9^{\circ}
$$

(8) later
(9) $\frac{20}{\sqrt{10}} \cdot \frac{\sqrt{10}}{\sqrt{10}}=\frac{3^{2} 0 \sqrt{10}}{10}=2 \sqrt{10}$

$$
\text { (10) } \begin{aligned}
40 & =30-27 \tan \theta \\
-30 & -30 \\
\frac{10}{-27} & =\frac{-27 \cdot \tan \theta}{-27} \\
\tan ^{\prime}\left(-\frac{10}{27}\right) & =\tan ^{-1} \tan \theta \\
-20.3 & \approx \theta
\end{aligned}
$$

Cecil H.

| $2-4 A$ |  | $6-1$ |  |
| :--- | :--- | :--- | :--- |
|  |  |  | $6.4 A$ |
| 2. | 2 |  | 1 |
| 3. | 3 | 3 |  |
| 4. | 4 |  | 4 |
| 5 | 5 | 5 |  |

Work
2-Y A (1)

Ch. 8 Shut Answer
(1)

$$
\begin{array}{r}
\sin ^{2} \sin \theta=\sin ^{-1} \frac{1}{2} \\
\theta=30^{\circ}
\end{array}
$$

(2)

$$
\begin{aligned}
& 5 \sqrt{3} \cdot 4 \sqrt{2} \\
& 20 \sqrt{6}
\end{aligned}
$$

(3) $\sqrt{2940}$
(2) $(5)$

$$
\begin{array}{ll}
2940 & \sqrt{2 \cdot 2 \cdot 3 \cdot 5 \cdot 7 \cdot 7} \\
10 \hat{294} & 2 \cdot 7 \sqrt{3 \cdot 5} \\
(2) & 14 \sqrt{15}
\end{array}
$$

(4)

$$
\begin{aligned}
& 32^{2}=\sqrt{4 x}^{2} \\
& \frac{1024}{4}=\frac{4 x}{21} \\
& 256=x
\end{aligned}
$$

(5)

$$
\begin{aligned}
& 5 \sqrt{3} \cdot 2 \sqrt{8} \\
& 10 \sqrt{24} \\
& 2.10 \sqrt{2 \cdot 22 \cdot 3} \\
& 20 \sqrt{6}
\end{aligned}
$$

(6)


$$
\begin{gathered}
\frac{\cos 75}{1}=\frac{x}{32} \\
x=32 . \cos 75 \\
x \approx 8.3
\end{gathered}
$$

(7)


$$
\cos \theta=\frac{4}{5} \quad \tan \theta=\frac{3}{4} \quad \sin \theta=\frac{3}{5}
$$

$\sigma \approx 36.9^{6}$
(8) Later
(9)

$$
\begin{array}{r}
\frac{20}{\sqrt{10}} \cdot \frac{\sqrt{10}}{\sqrt{10}} \frac{20 \sqrt{10}}{\frac{10}{10}} \\
2 \sqrt{10}
\end{array}
$$

