Cecil H.

2-4A	6-1	6-4A
1.	1	1
2.	2	2
3.	3	3
4.	4	4
5.	5	5

Work
2-4A ①

Ch. 8 Short Answer

① $\sin^{-1}\sin\theta = \sin^{-1}\frac{1}{2}$

$\theta = 30°$

② $5\sqrt{3} \cdot 4\sqrt{2}$

$20\sqrt{6}$

③ $\sqrt{2940}$

$= \sqrt{2 \cdot 2 \cdot 3 \cdot 5 \cdot 7 \cdot 7}$

2940
294 10

$2 \cdot 7\sqrt{3 \cdot 5}$

$14\sqrt{15}$

④ $32^2 = \sqrt{4x}^2$

$\frac{1024}{4} = \frac{4x}{4}$

$256 = x$

⑤ $5\sqrt{3} \cdot 2\sqrt{8}$

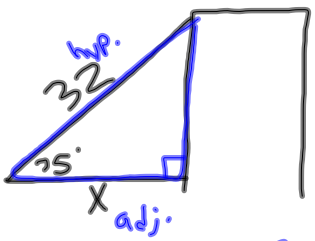
$10\sqrt{24}$

$10\sqrt{2 \cdot 2 \cdot 2 \cdot 3}$

$10 \cdot 2\sqrt{2 \cdot 3}$

$20\sqrt{6}$

⑥

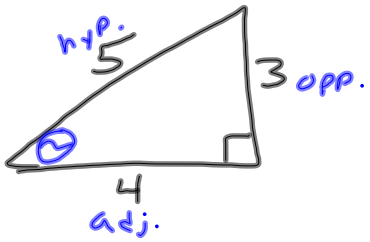


$\frac{\cos 75}{1} = \frac{x}{32}$

$x = 32 \cdot \cos 75$

$x \approx 8.3$ ft.

⑦



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

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

$\theta \approx 36.9°$

(8) later

(9) $\frac{20}{\sqrt{10}} \cdot \frac{\sqrt{10}}{\sqrt{10}} = \frac{20\sqrt{10}}{10} = 2\sqrt{10}$

(10) $40 = 30 - 27\tan\theta$

$-30 \quad -30$

$\frac{10}{-27} = \frac{-27\cdot\tan\theta}{-27}$

$\tan^{-1}\left(-\frac{10}{27}\right) = \tan^{-1}\tan\theta$

$-20.3^\circ \approx \theta$

Cecil H.

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5.	5	5

Work
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$\theta = 30^\circ$

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$\sqrt{2\cdot2\cdot3\cdot5\cdot7\cdot7}$

$2\cdot7\sqrt{3\cdot5}$

$14\sqrt{15}$

2940

10 294

2 5

(4) $32^2 = \sqrt{4x}^2$

$\frac{1024}{4} = \frac{4x}{4}$

$256 = x$

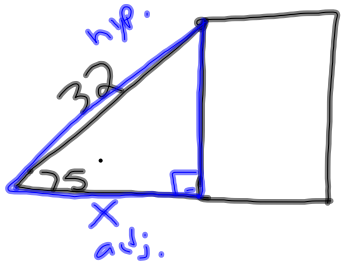
(5) $5\sqrt{3} \cdot 2\sqrt{8}$

$10\sqrt{24}$

$2 \cdot 10\sqrt{2 \cdot 2 \cdot 2 \cdot 3}$

$20\sqrt{6}$

(6)

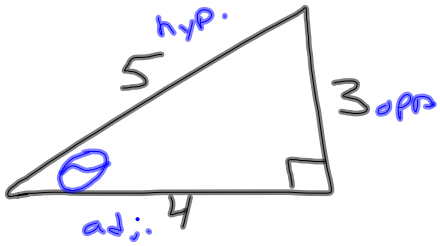


$\frac{\cos 75^\circ}{1} = \frac{x}{32}$

$x = 32 \cdot \cos 75$

$x \approx 8.3$

(7)



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

$\theta \approx 36.9^\circ$

⑧ Later

⑨ $\frac{20}{\sqrt{10}} \cdot \frac{\sqrt{10}}{\sqrt{10}} \quad \frac{\overset{2}{\cancel{20}}\sqrt{10}}{\cancel{10}_{1}}$

$2\sqrt{10}$