HW #1
unit 6

worksheet #2-8, 10-15, 21-23

2. $\sin\theta = \dfrac{12}{15}$

$\cos\theta = \dfrac{9}{15}$

$\tan\theta = 12/9$

3. $\sin\theta = \dfrac{3}{\sqrt{13}}$

$\cos\theta = 2/\sqrt{13}$

$\tan\theta = 3/2$

4. $\sin\theta = \sqrt{15}/4$

$\cos\theta = 1/4$

$\tan\theta = \sqrt{15}$

5. $x = \dfrac{100\sqrt{3}}{3}$

6. $x = 15\sqrt{2}$

7. $x = \dfrac{250\sqrt{3}}{3}$

8. $\ell = 44\,ft.$

10. $\sin\theta = 5/\sqrt{34}$ $\csc\theta = \sqrt{34}/5$
$\cos\theta = 3/\sqrt{34}$ $\sec\theta = \sqrt{34}/3$
$\tan\theta = 5/3$ $\cot\theta = 3/5$

11. $\sin\theta = 6/2\sqrt{10}$ $\csc\theta = 2\sqrt{10}/6$
$\cos\theta = 2/2\sqrt{10}$ $\sec\theta = 2\sqrt{10}/2$
$\tan\theta = 6/2$ $\cot\theta = 2/6$

12. $\sin\theta = 2/5$ $\csc\theta = 5/2$
$\cos\theta = \dfrac{\sqrt{21}}{5}$ $\sec\theta = \dfrac{5}{\sqrt{21}}$
$\tan\theta = 2/\sqrt{21}$ $\cot\theta = \sqrt{21}/2$

21. $\sin\theta = 8/10$ $\csc\theta = 10/8$
$\cos\theta = 6/10$ $\sec\theta = 10/6$
$\tan\theta = 8/6$ $\cot\theta = 6/8$

22. $\sin\theta = 1/\sqrt{17}$ $\csc\theta = \sqrt{17}$
$\cos\theta = 4/\sqrt{17}$ $\sec\theta = \sqrt{17}/4$
$\tan\theta = 1/4$ $\cot\theta = 4$

23. $\sin\theta = \dfrac{\sqrt{2}}{2}$ $\csc\theta = \sqrt{2}$
$\cos\theta = \dfrac{\sqrt{2}}{2}$ $\sec\theta = \sqrt{2}$
$\tan\theta = 1$ $\cot\theta = 1$