13.3 Complementary Angles

NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ HOUR: \_\_\_\_\_\_\_\_\_\_\_\_\_

1. If $\cos(x)=\frac{4}{5}$, what is the $\sin(x)=$ 2. If $\tan(x)=\frac{12}{5}$, what is the $\sin(x)=$

3. If $\cos(x)=\frac{4}{8}$, what is the $\tan(x)=$ 4. If $\sin(x)=\frac{12}{13}$, what is the $\cos(x)=$

5. If $\tan(x)=\frac{24}{21}$, what is the $\cos(x)=$ 6. If $\sin(x)=\frac{2}{3}$, what is the $\tan(x)=$

Rewrite each equation using complements and the other trig function.

7. $\cos(12°=\\_\\_\\_\\_\\_\\_)$ 8. $\sin(43°)=\\_\\_\\_\\_\\_\\_$ 9. $\sin(89°=\\_\\_\\_\\_\\_\\_)$ 10. $\cos(31°=\\_\\_\\_\\_\\_\\_\\_)$

11. sin 5o = \_\_\_\_\_ 12. cos 81o = \_\_\_\_\_ 13. sin wo = \_\_\_\_\_ 14. cos to = \_\_\_\_\_

Solve for x in each of the following triangles.

15. 16. 17.







18. 19. 20.



21. 22. 23.