Homework Check:

5. 11.57

6. 30.86

7.62.08

8. $\frac{s}{t}$ $\frac{r}{t}$ $\frac{s}{s}$

10.

11.30°

12. 53°

13.30°

14. 24°

15. *a* ≈ 35 cm

16. *b* ≈ 15 cm

17. $c \approx 105 \text{ yd}$

18. $d \approx 40^{\circ}$

19. *e* ≈ 50 cm

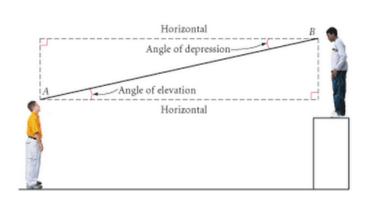
20. *f* ≈ 33°

21. $g \approx 18$ in.

22. approximately 237 m

23. $x \approx 121 \text{ ft}$

12.2 - Problem Solving with Right Triangles

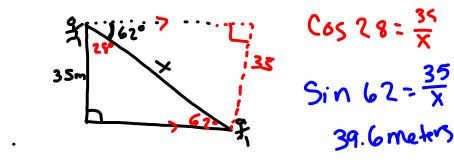


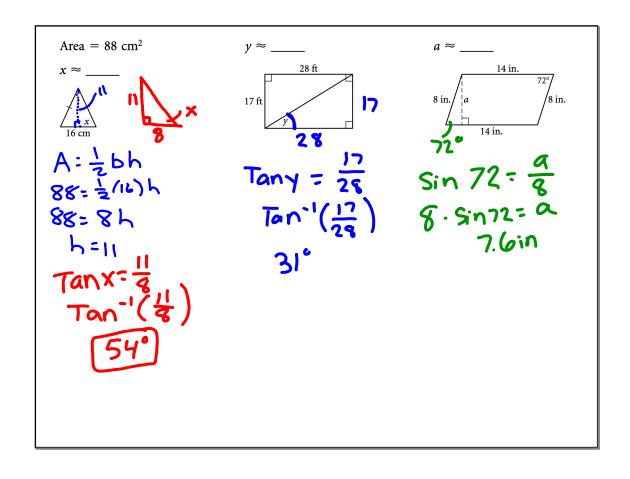
If you look up, you measure the **angle of elevation**. If you look down, you measure the **angle of depression**.

The angle of elevation from a sailboat to the top of a 121-foot lighthouse on the shore measures 16°. How far is the sailboat from the lighthouse?



From the top of a 35 meter cliff, Lori spots a hiker on the ground at an angle of depression of 62°. How far is Lori from the hiker?





Homework	