Math 86 Lab 4 Franz Helfenstein Name

Answers must be clearly **legible**, **simplified** and **boxed** or **circled**. Unless otherwise stated write answer as an **exact** integer or rational or use **two** decimal accuracy. **Units** required.

2)

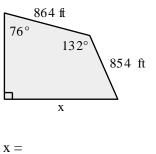
- 1) Find the elevation drop in feet. 5,280 ft = 1 mi.
 - 4- mile 8% Downgr ade Ahe ad

Find the Area.

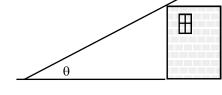


Elevation change =

3) Find x.

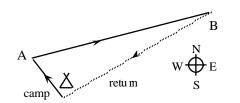


4) A 64 ft building casts a 110 ft shadow.



 $\theta =$

5) Billy hikes from Camp to pt A for 650 ft bearing N 50° W, then turns and hikes 2,000 ft to pt B bearing N 75° E. How far is it back to camp?



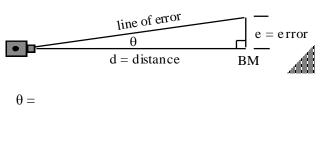
Distance back to camp =

 Find the height of the flag pole given an angle of 47° measured 54 ft from the base of the pole.



H =

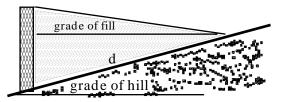
7) A transit shoots a line 420 ft towards a known 8) bench mark with 6 in of error. What angular error is in the transit?



from his eye. How tall is the tree? $f(x) = \frac{1}{2}$ $H = \frac{1}{2}$

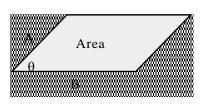
Joe stands 65 ft from a tree and holds a ruler 18"

A 12 ft retaining wall is erected on a hill with a 20% grade. The fill is to be graded at 12%. Find d, where the fill meets the hill.



d =

10) Find the area of a parallelogram with A= 10 ft, B = 20 ft and $\theta = 40^{\circ}$



Area =