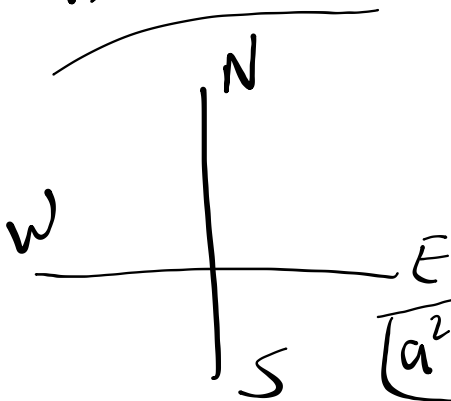
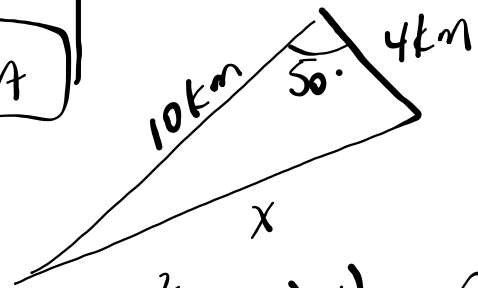
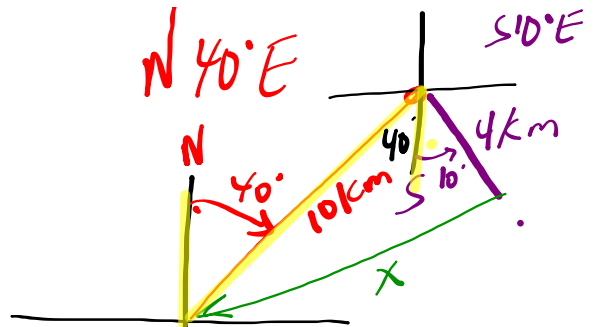


HW ???

(11)



$$a^2 = b^2 + c^2 - 2bc \cos A$$



$$x^2 = 10^2 + 4^2 - 2(10)(4) \cos 50^\circ$$

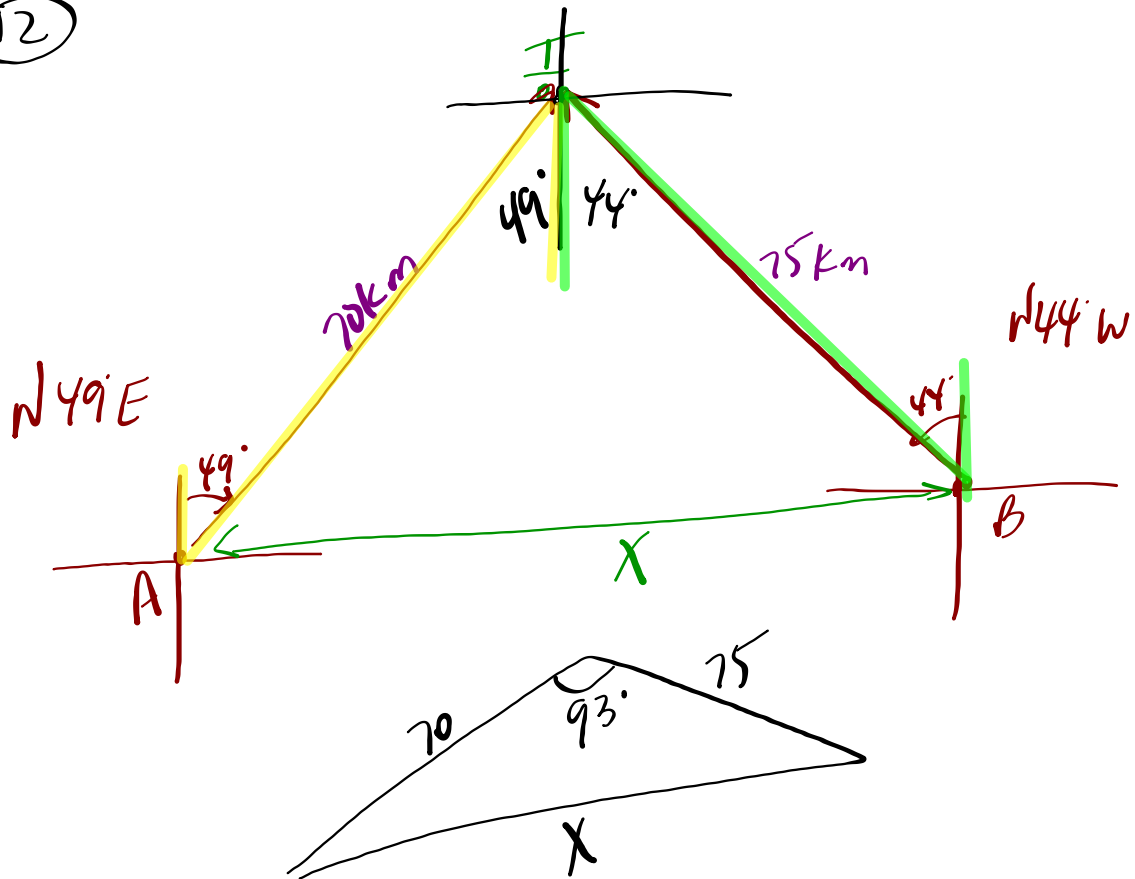
$$x =$$

```

10^2+4^2-2*10*4*cos
(50)
64.57699123
√(Ans
8.035981037
    
```

■ $x = 8.0 \text{ km}$

(12)



$$x^2 = 70^2 + 75^2 - 2 \cdot 70 \cdot 75 \cdot \cos(93)$$

$$= 11074.52754$$

$$\sqrt{\text{Ans}} = 105.2355812$$

$$x = 105.2\text{ km}$$

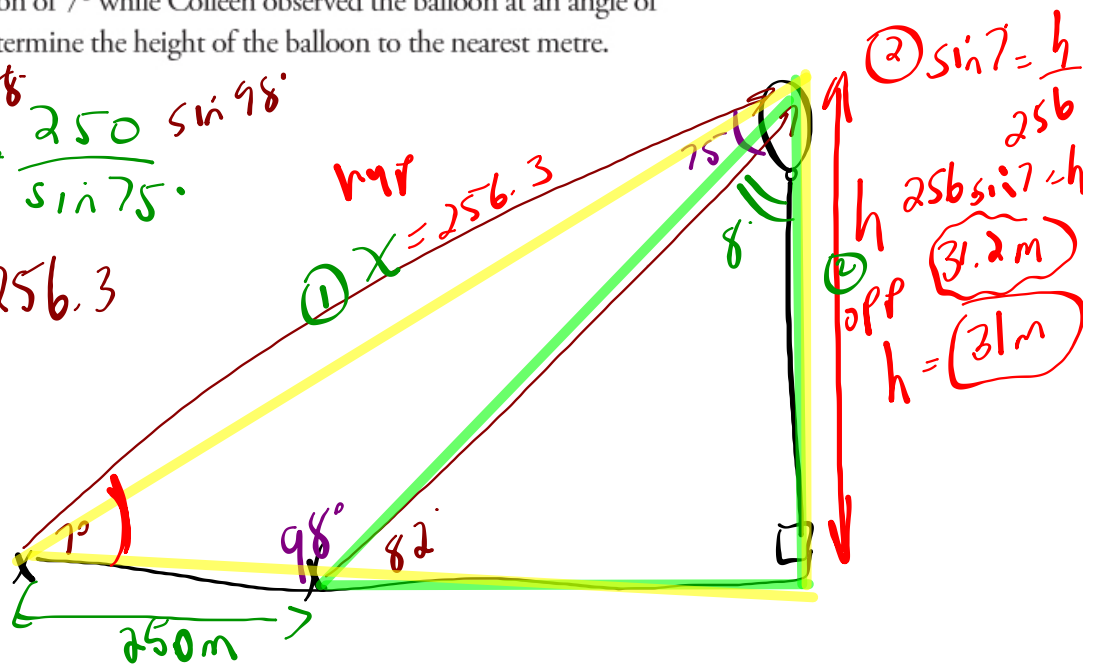
EX #2: Solving an application question...

(p. 166)

Colleen and Juan observed a tethered balloon advertising the opening of a new fitness centre. They were 250 m apart, joined by a line that passed directly below the balloon, and were on the same side of the balloon. Juan observed the balloon at an angle of elevation of 7° while Colleen observed the balloon at an angle of elevation of 82° . Determine the height of the balloon to the nearest metre.

$$\textcircled{1} \frac{x \sin 98^\circ}{\sin 98^\circ} = \frac{250 \sin 98^\circ}{\sin 75^\circ}$$

$$x = 256.3$$



When your finished the quiz...

HOMEWORK: More Applications/Word Problems

Page 154 #5, 6, 9, 10, 11 (bearings - see example from Friday)

Page 172 #9, 10, 12, 13, 14

