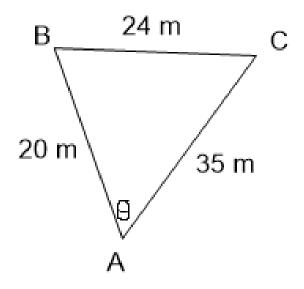
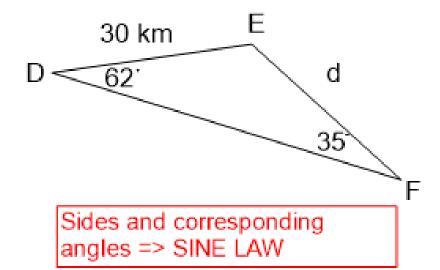
Chapter 3 Review

Would you use the sine law or the cosine law to determine each indicated side or angle measure? Explain.



3 sides and looking for an angle => COSINE LAW



Abby walks 1235 m at a bearing of N60E from the back door at her school. Hailey walks 625m at a bearing of S70E from the same door. How far apart are the girls?

$$\chi^{2} = (625)^{2} + (1235)^{2} - 2(625)(1235)cos 50$$

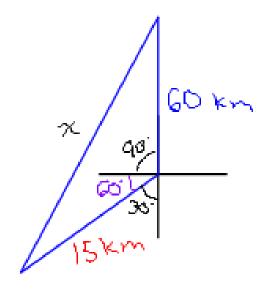
$$\chi^{2} = 390605 + 152505 - 990363.3725$$

$$\chi^{2} = 923546.6275$$

$$\chi^{2} = 961 \text{ m}$$

Car A travels North for 45 minutes at 80 km/h from an intersection. -> 0.25 h Car B left the intersection at the same time and travels S30W for 15 minutes at 60 km/h. d=v.t=(80)(0.75)=60 Km

How far apart are the 2 cars?



$$50 \text{ km}$$

$$\chi^2 = 60^2 + 15^2 - 2(15)(60)\cos 150$$

$$\chi^2 = 3600 + 225 - (-1558.8457)$$

$$\chi^2 = 5383.8457$$

Do Self Test p.152 Chapter Review p.154