Triangles or Not?

- 1. Decide from the information given whether:
 - It is possible to construct a unique triangle ABC.
 - It is possible to construct more than one triangle ABC.
 - It is not possible to construct a triangle ABC with these properties.

Give reasons for your answers (You are not required to perform any accurate constructions).

	Information Triangle possible? Check (☑) the correct answer		Reason	
	Angle B = 50°, AC = 3 cm, BC = 5 cm.	Unique triangle		
		More than one triangle		
		Not possible		
b.	AB = 10 cm, BC = 11 cm, AC = 9 cm.	Unique triangle		
		More than one triangle		
		Not possible		
C.	Angle A = 40°, Angle B = 60°, Angle C = 80°.	Unique triangle		
		More than one triangle		
		Not possible		
d.	AB = 4 cm, BC = 3 cm, Angle B = 30°.	Unique triangle		
		More than one triangle		
		Not possible		

. Triangle ABC is isosceles with AB = 5 cm and Angle B = 48°. Triangle DEF is isosceles with DE = 5 cm and Angle E = 48°. Explain why the two triangles may not be identical.
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