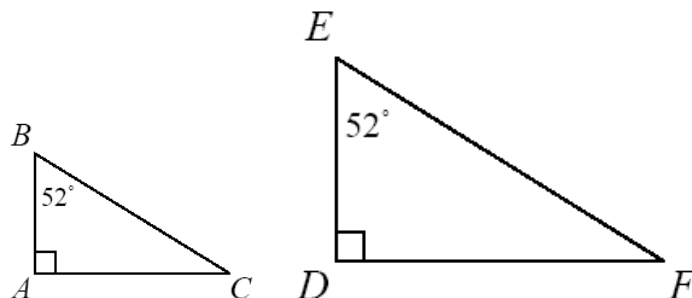


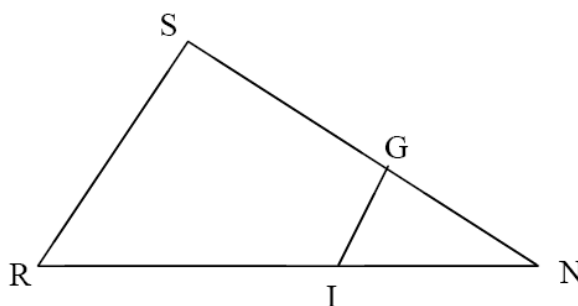
Name: _____

Similar Triangles

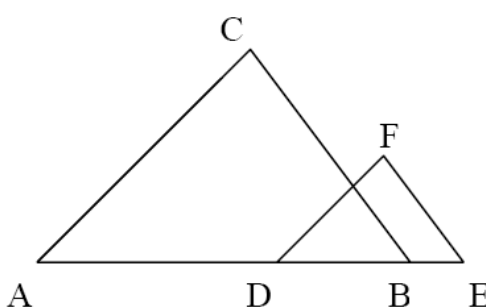
Exercise 1: Consider two right triangles $\triangle ABC$ and $\triangle DEF$ in which $m\angle A = 90$ and $m\angle D = 90$. It is also known that $m\angle B = m\angle E = 52$. Are these two right triangles similar? Justify your answer.



Exercise 2: $\triangle ING \sim \triangle RNS$, $GS = 6$ cm, $GN = 3$ cm, $RI = (x+5)$ cm and $IN = (x+1)$ cm. Find the value of x .



Exercise 3: $\overline{AC} \parallel \overline{DF}$, $\overline{BC} \parallel \overline{EF}$, $AD = 6$ cm, $DB = 4$ cm, $BE = 2$ cm, $AC = (3x+2)$ cm and $DF = (x+2.8)$ cm. Find the value of x .



Exercise 4: $\triangle ACE \sim \triangle TOE$, $CO = 12$ cm, $CE = 8$ cm, $AE = (x+5)$ cm and $ET = (x-2)$ cm. Find the value of x .

