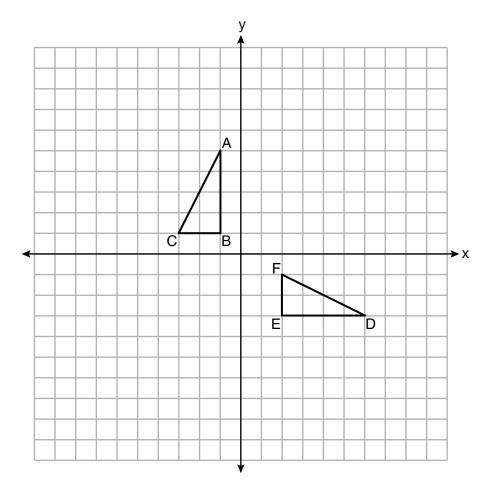
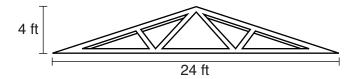
26 On the set of axes below, $\triangle ABC$ and $\triangle DEF$ are graphed.

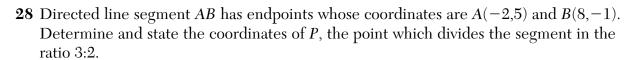


Describe a sequence of rigid motions that would map $\triangle ABC$ onto $\triangle DEF$.

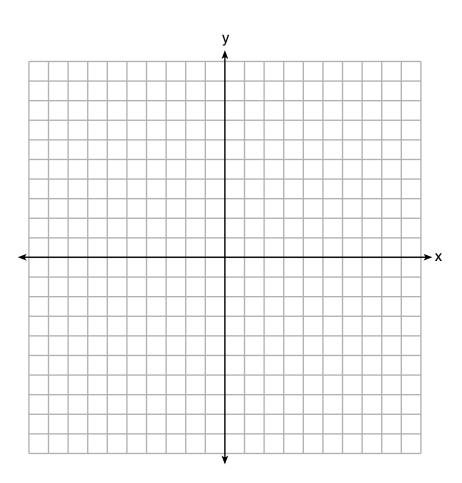
27 As shown in the diagram below, a symmetrical roof frame rises 4 feet above a house and has a width of 24 feet.



Determine and state, to the *nearest degree*, the angle of elevation of the roof frame.



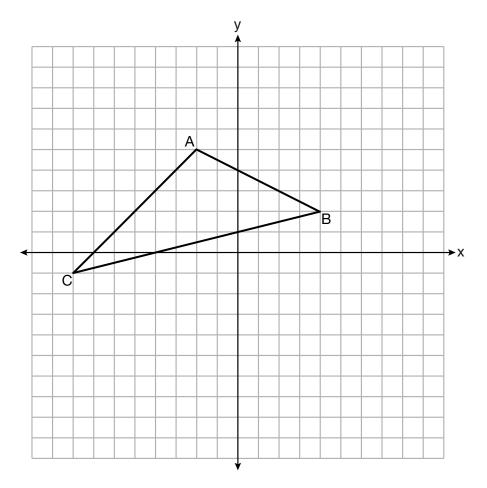
[The use of the set of axes below is optional.]



29 In $\triangle ABC$, $AB = 5$, $AC = 12$, and $m \angle A = 90^{\circ}$. In $\triangle DEF$, $m \angle D = 90^{\circ}$, $DF = 12$, and $EF = 13$. Brett claims $\triangle ABC \cong \triangle DEF$ and $\triangle ABC \sim \triangle DEF$.
Is Brett correct? Explain why.

30 The volume of a triangular prism is 70 in ³ . The base of the prism is a right triangle with one leg whose measure is 5 inches. If the height of the prism is 4 inches, determine and state the length, in inches, of the other leg of the triangle.	

31 Triangle ABC with coordinates A(-2,5), B(4,2), and C(-8,-1) is graphed on the set of axes below.



Determine and state the area of $\triangle ABC$.