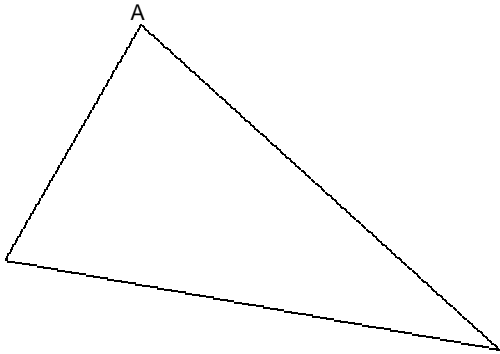


Homework #3-3 Constructing Perpendiculars

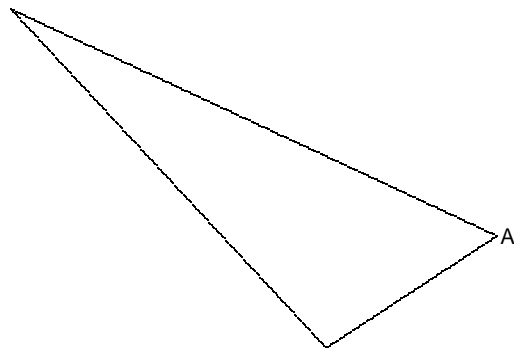
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For each triangle, construct the altitude from vertex A.

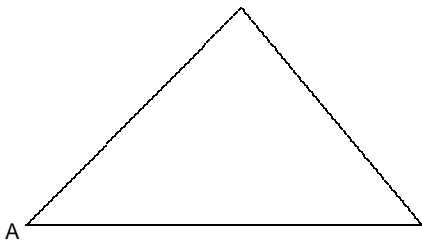
1)



2)

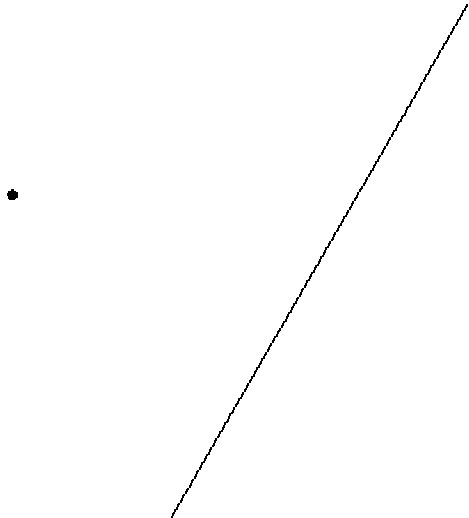


3)

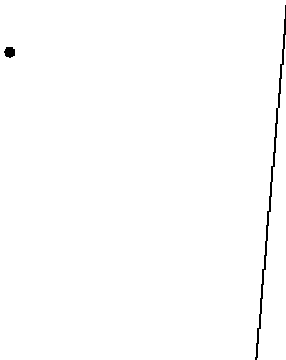


Construct a line segment perpendicular to the segment given through the point given.

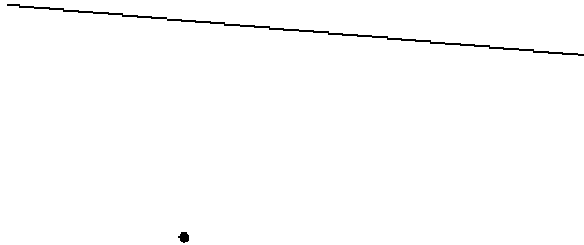
4)



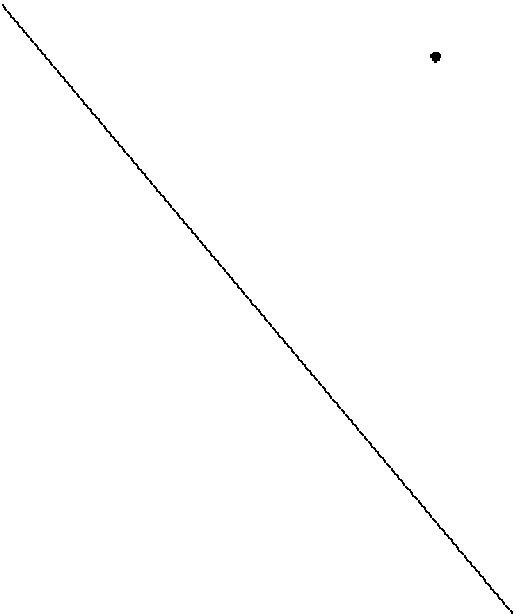
5)



6)

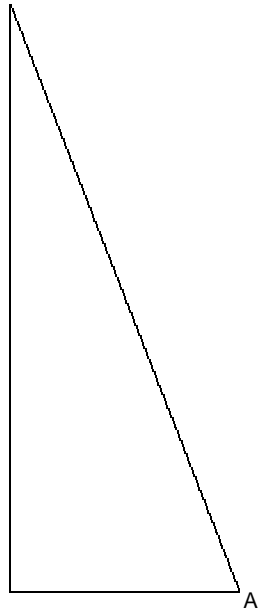


7)

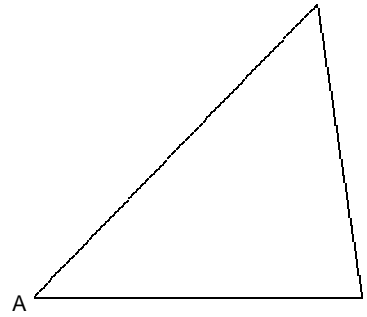


For each triangle, construct the median from vertex A.

8)

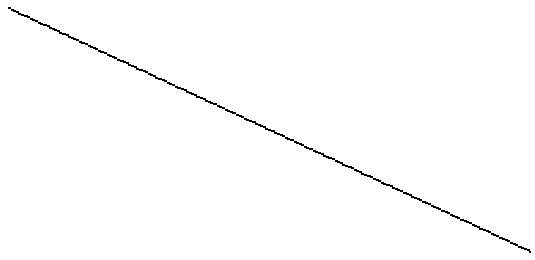


9)



Construct the perpendicular bisector of each.

10)

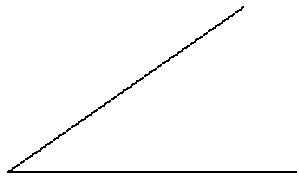


11)

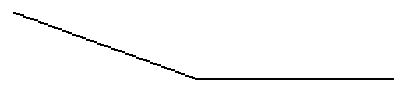


Construct a copy of each angle given.

12)



13)



Construct a line segment congruent to each given line segment.

14)



Construct a line segment the given number of times longer than the given segment.

15)

3 times as long



Write the slope-intercept form of the equation of the line through the given points.

16) through: (2, 2) and (0, -2)

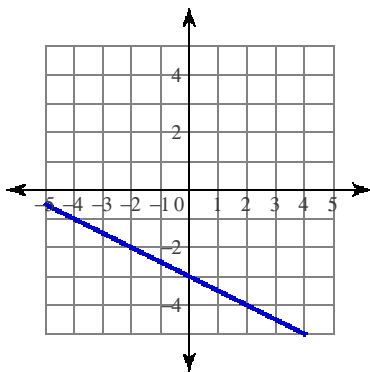
17) through: (0, -2) and (2, 1)

Write the slope-intercept form of the equation of the line through the given point with the given slope.

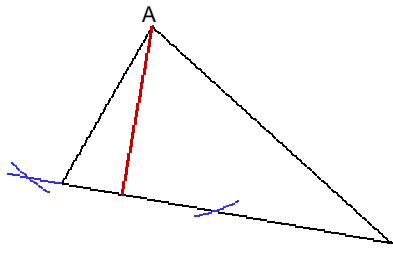
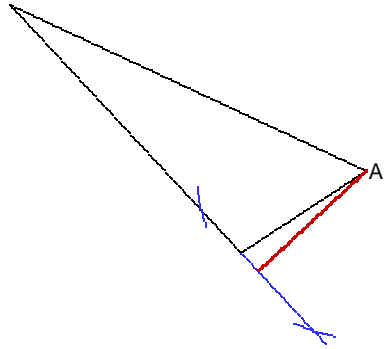
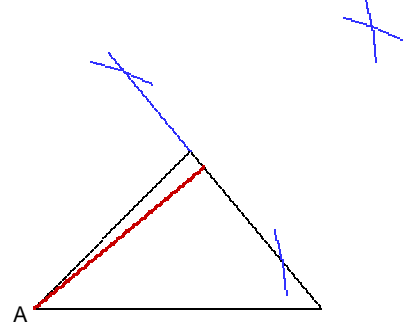
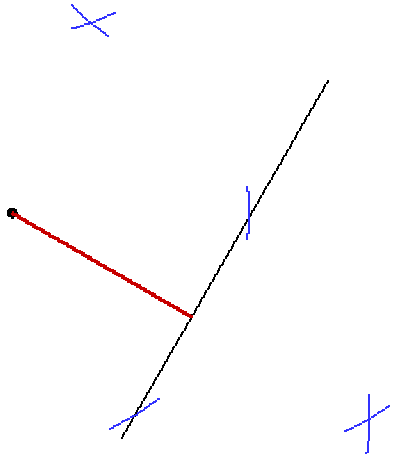
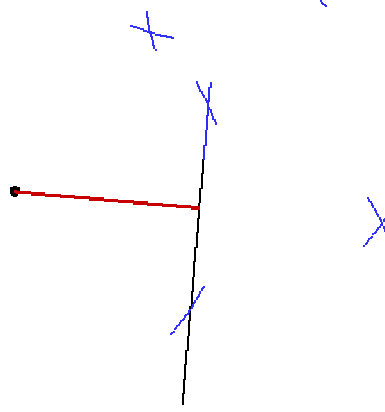
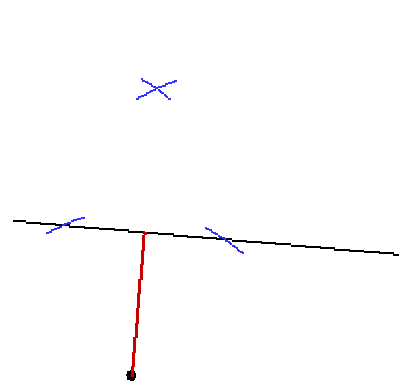
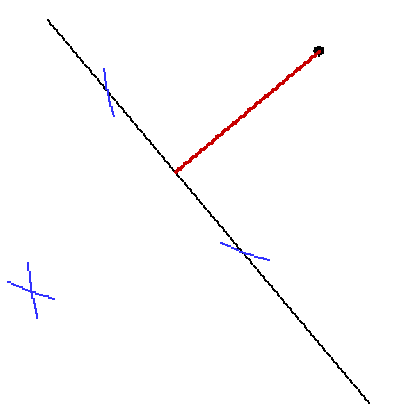
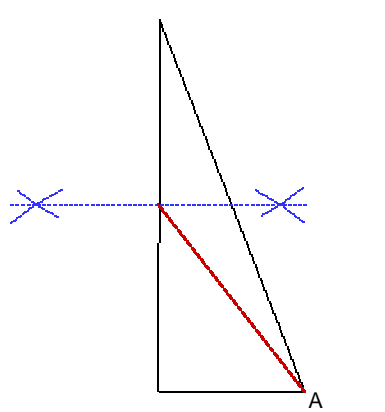
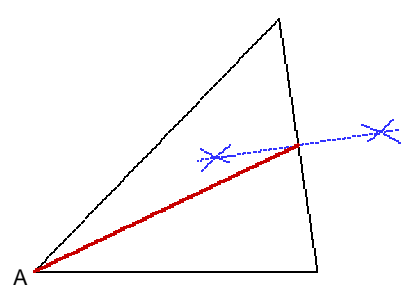
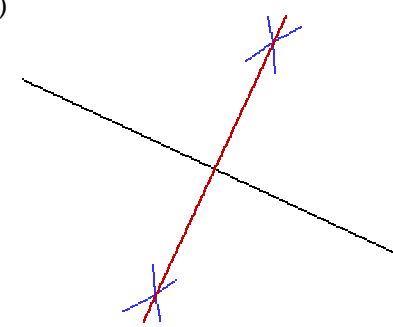
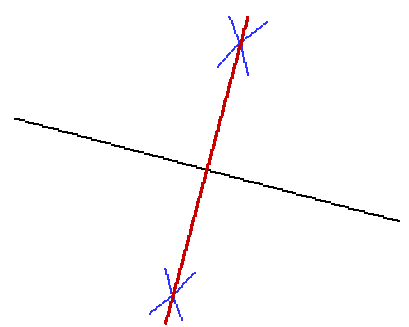
18) through: (4, 3), slope = $\frac{1}{2}$

Write the slope-intercept form of the equation of each line.

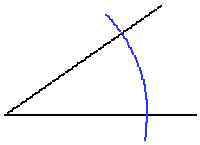
19)



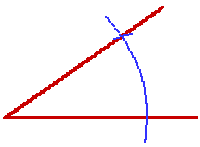
Answers to Homework #3-3 Constructing Perpendiculars (ID: 1)

- 1) 
- 2) 
- 3) 
- 4) 
- 5) 
- 6) 
- 7) 
- 8) 
- 9) 
- 10) 
- 11) 

12)



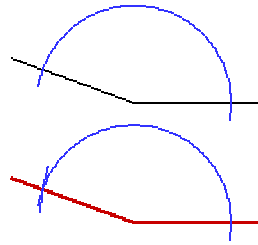
14)



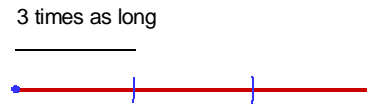
16) $y = 2x - 2$

17) $y = \frac{3}{2}x - 2$

13)



15)



18) $y = \frac{1}{2}x + 1$

19) $y = -\frac{1}{2}x - 3$