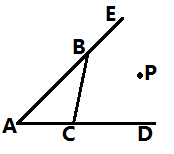
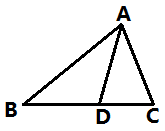
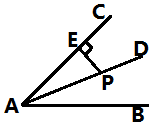
Grade 8 Bil. Math worksheet 6:proof Name: Score:

1. Fill in blanks.
2. P is a point on the bisector line AD of . If PE=3, then the distance from P to AB is







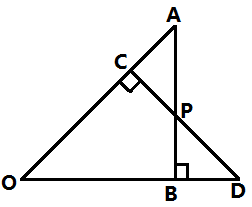
1. In , AD is the angular bisector, if , then the ratio between the area =
2. Point P has equal distance to AE, BC, AC, tell True or False for each of the following statement:

① P is on the bisector of

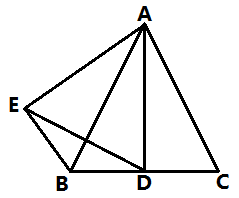
② P is on the bisector of

③ P is on the bisector of .

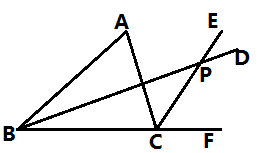
1. As in the graph, AC=DB, with foots of perpendicular C,B. Prove
2. PA=PD



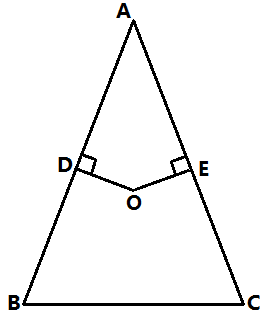
1. is an equilateral triangle, AD is the median line , is also an equilateral triangle. Prove BD=BE.



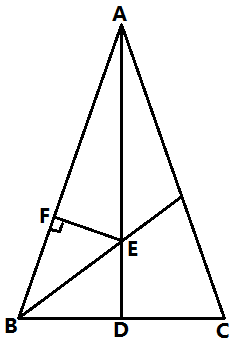
1. In , the bisector of intersects with the bisector of exterior angle of at P. Prove: point P has equal distance to AB, BC, CA.



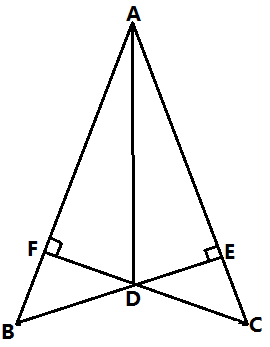
1. In , AB=AC, the perpendicular bisectors of AB, AB meets at O. Prove that O is on the bisector line of



1. is an isosceles triangle, AB=AC, AD is the median line of BC, the angular bisector of intersects with AD at E, . Prove that EF=ED.



1. As in the graph, , BD=CD. Prove that AD bisects



1. ABCD is a quadrilateral, , AB=4, CD=2. Can you find the length of AD, BC?

