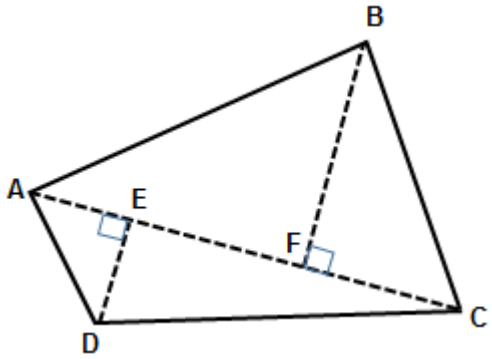
22, 37

Notes 11.2: Areas of Triangles, Trapezoids, and Rhombi

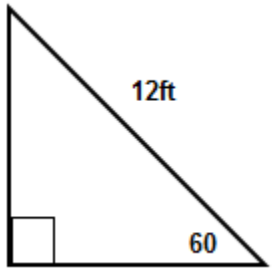
Part #1….Triangles:

Ex1) Find the area of quadrilateral ABCD if AC = 35, BF = 18, and DE = 10

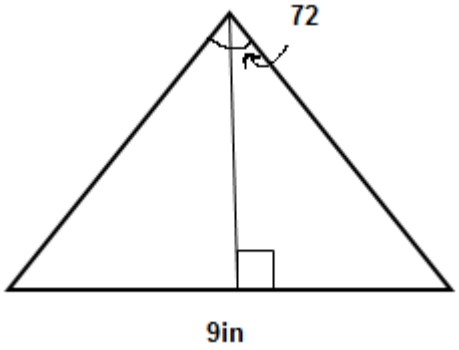


Ex2) Find the area of the triangle

a)



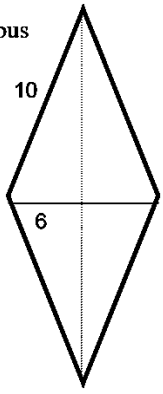
b)



Area of a Trapezoid:

Area of a Rhombus:

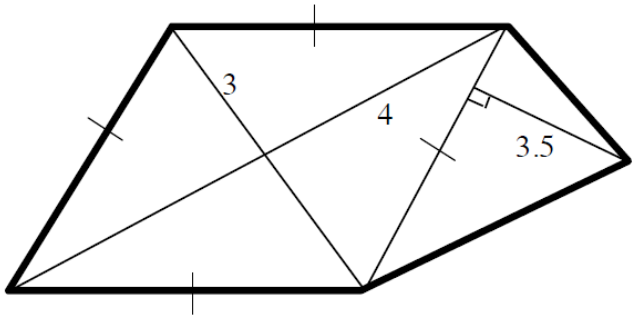
Ex3) Rhombus



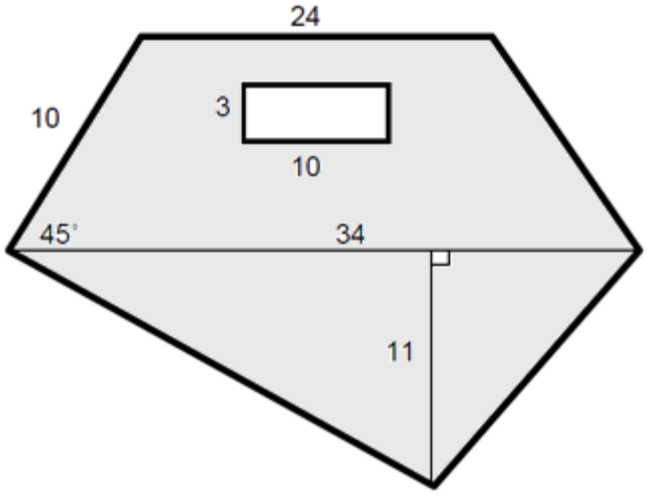
Ex4) Find the area of the trapezoid:

More Fun!

Ex5)



Ex6) Find the shaded area.



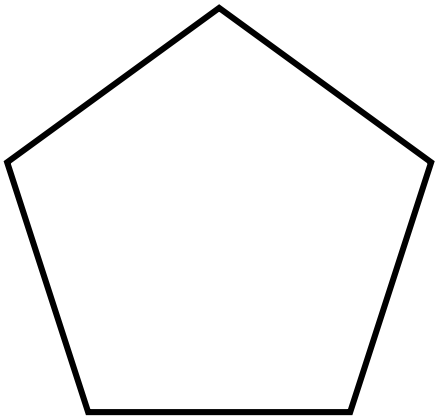
Ex7) Rhombus RSTU has an area of 64 square inches. Find US if RT = 8inches

Ex8) Trapezoid PQRS has an area of 250 square inches. Find the height of PQRS.

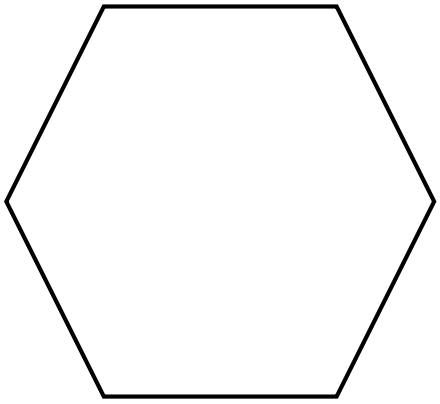
Lesson 11-3: Areas of Regular Polygons and Circles

Area of a Regular Polygon:

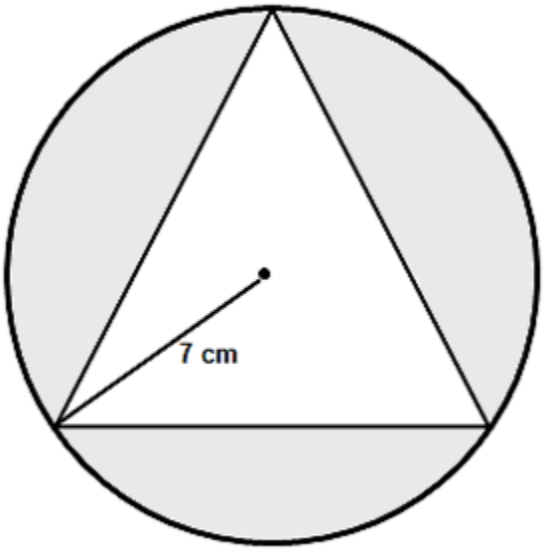
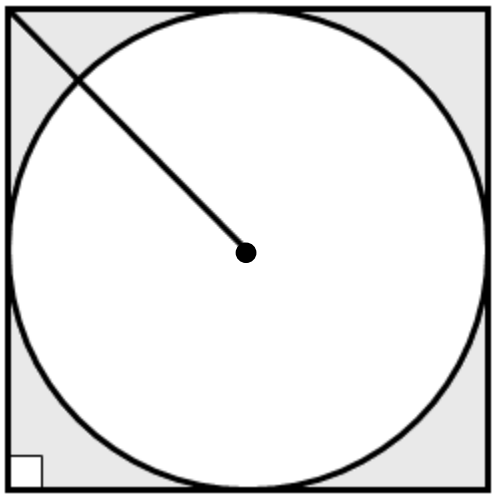
1) Find the area of a regular pentagon with a perimeter of 40 centimeters.



2) Find the area of a regular hexagon with an apothem length of 10 inches.



Ex3) Find the area of the shaded region. Assume that the triangle is equilateral. Round to the nearest tenth.



Ex4) Find the area of the shaded region. Assume that the quadrilateral is a square. Round to the nearest tenth.