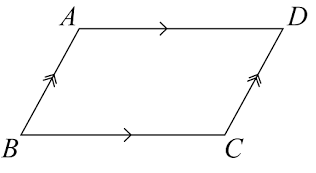
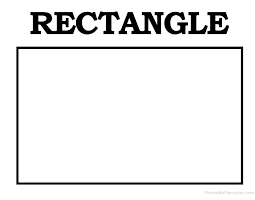
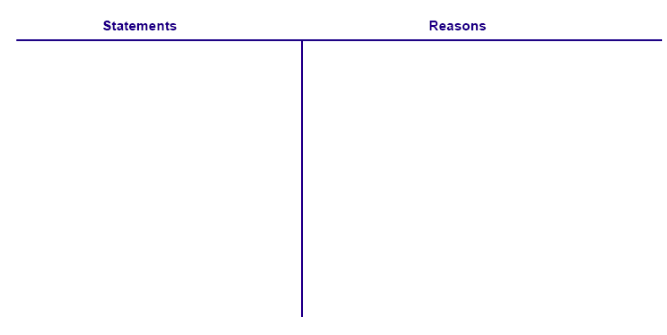
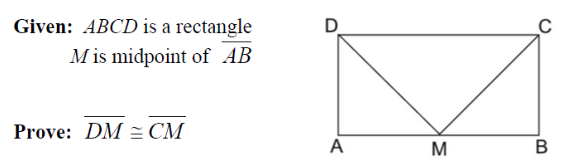
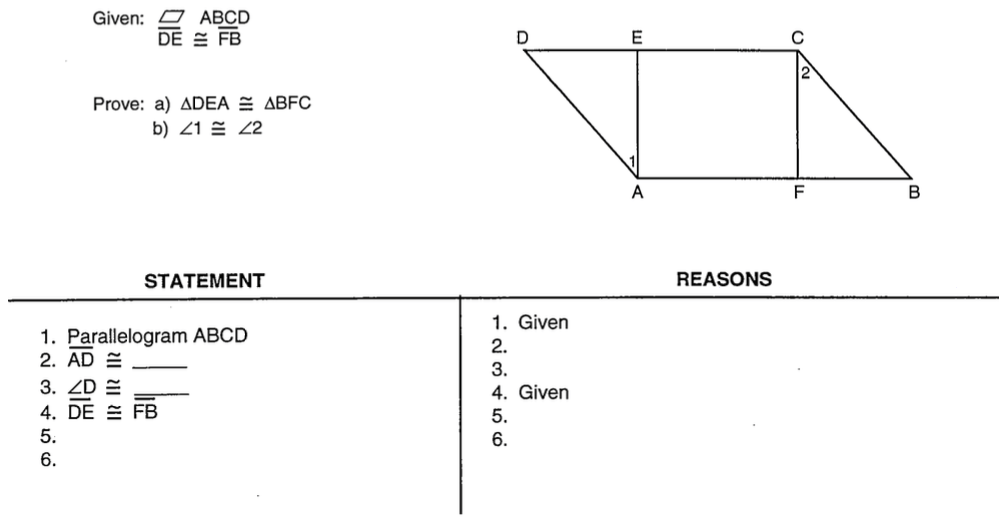
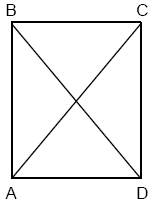
Properties of a parallelogram and rectangle



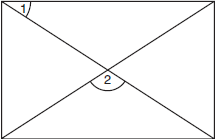
**So how can we apply the properties to proofs?**





Application

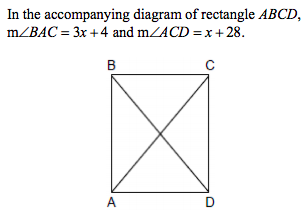
1. In the accompanying diagram of rectangle , and . What is ?   
   1. 12
   2. 37
   3. 40
   4. 50
2. In rectangle *ABCD*, *AC* = 3*x*+15 and *BD* = 4*x*–5. Find the length of . (Draw a picture)



1. As shown in the accompanying diagram, a rectangular gate has two diagonal supports. If , what is ?

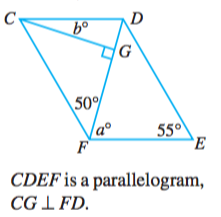
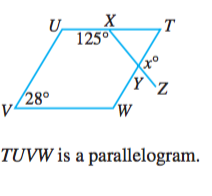
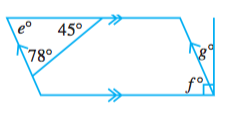
4a) In the accompanying diagram of rectangle *ABCD,* and

*Determine the measure of <CAD*

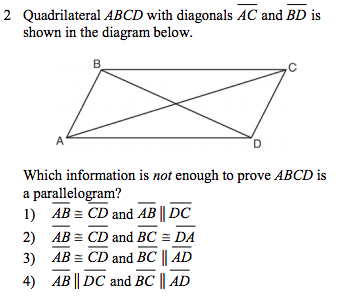


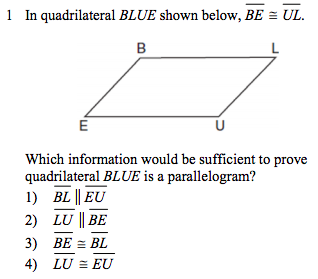
b. Using your answer from A and given AD is 10. Determine the measure of CD to 1 decimal place

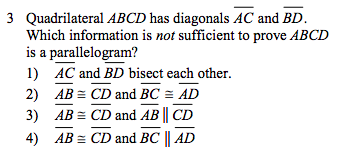
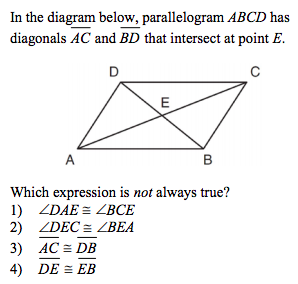
5. Use the properties of parallelograms to solve for the unknown angles

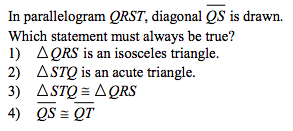


Regents ready

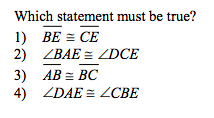
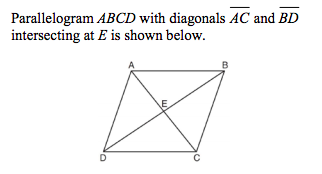






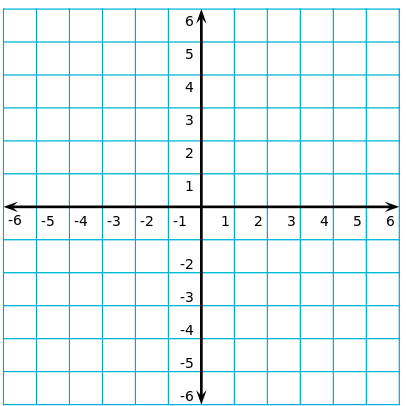


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Exit ticket





Exit ticket



