

After each statement tell which of the figure(s) it is a characteristic of:

Parallelogram(P), Rhombus(Rh), Rectangle(Rec), Square(S)

- |                                 |                                  |
|---------------------------------|----------------------------------|
| 1. All sides are congruent.     | 2. Opposite Sides are $\cong$ .  |
| Rh, S                           | P, Rh, Rec, S                    |
| 3. Opposite sides are parallel. | 4. Opposite Angles are $\cong$ . |
| P, Rh, Rec, S                   | P, Rh, Rec, S                    |
| 5. All angles are Rt. angles.   | 6. Consec angles are suppl       |
| S, Rec                          | P, Rh, Rec, S                    |

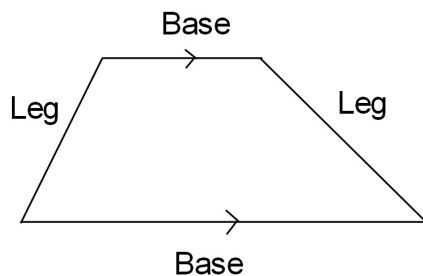
After each statement tell which of the figure(s) it is a characteristic of:

Parallelogram(P), Rhombus(Rh), Rectangle(Rec), Square(S)

- |                                 |  |
|---------------------------------|--|
| 7. Diagonals bisect each other. | 8. Diagonals are $\cong$                   |
| P, Rh, Rec, S                   | S, Rec                                     |
| 9. Diagonals are perpendicular. | 10. Each diagonal bisects opposite angles. |
| S, Rh                           | Rh, S                                      |

### Sec 6-5: Trapezoids and Kites.

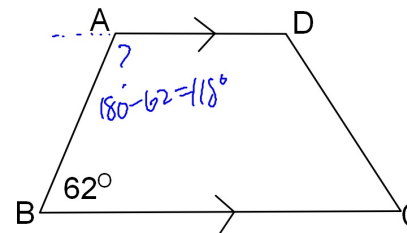
Trapezoid: exactly one pair of sides is parallel



Bases: the parallel sides  
Legs: The non-parallel sides

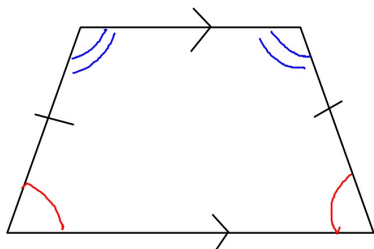
Angles inside the Trapezoid are called the Base Angles.

Find the measure of all the angles that you can.



You can't find either angle D or C by knowing only angles A and B

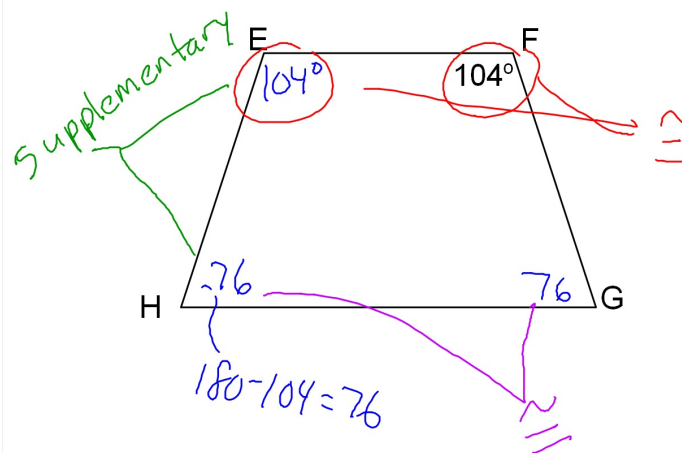
Isosceles Trapezoid: A trapezoid with congruent legs.



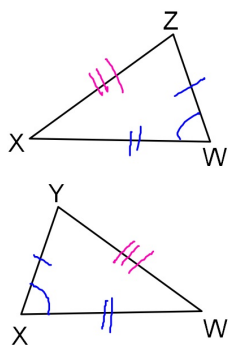
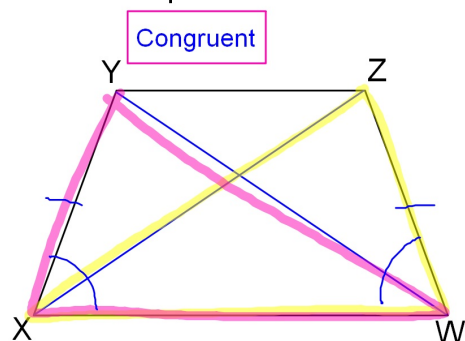
Because the legs are congruent what else is true about an isosceles trapezoid that isn't true about a "regular" trapezoid?

Both Pair of Base Angles are  $\cong$

Find the measure of each missing angle.



What is true about the diagonals of an Isosceles Trapezoid?



Triangles are congruent using SAS.

Using CPCTC you can show that  $\overline{YW} \cong \overline{ZX}$