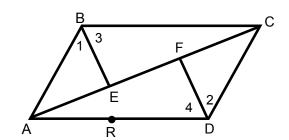
Do Now

- 1) Name in all possible ways the line containing A, R, D
- 2) Name all the sides of ∠ABC.
- 3) What side do ∠2 and ∠4 have in common?
- 4) Name the horizontal ray with endpoint C.

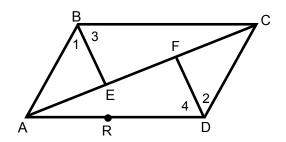


- 5) Estimate the sizes of ∠BAD, ∠2 and ∠ABC.
- 6) Are angles FCD and DCE different angles? Why or why not? How do you know?
- 7) Can you call ∠2 "∠D" as well? Why or why not? How do you know?

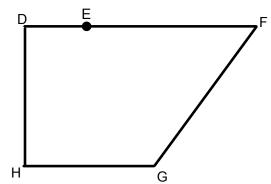
Practice Problems for Quiz (1.1-1.5) Name____



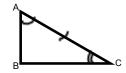
- 2) EC N FA = _____
- 3) BA U BE = _____
- 4) AC N DR = _____
- 5) ∠AFD ∩ CE = _____



- 6) Tell whether each of the following angles *appears* to be acute, right, obtuse, or straight. Which angle's classifications can be assumed form the diagram?
- a) ∠H _____
- b) ∠G _____
- c) ∠GFE _____
- d) ∠DEF _____
- e) ∠HDF _____

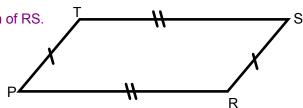


- 7) a) According to the diagrams, which two **segments** are congruent?
 - a) According to the diagrams, which two angles are congruent?



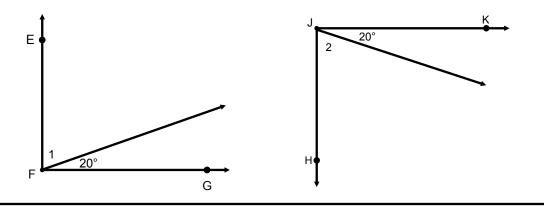


8) The perimeter of PRST is 10 more that 5 times the length of RS. If PR = 26, find RS.

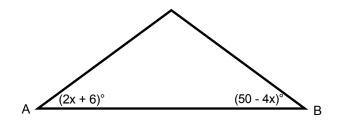


9) a) If \angle EFG is obtuse and \angle HJK is right, is \angle 1 \cong \angle 2? How do you know?

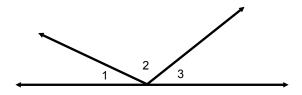
b) If \angle EFG \cong \angle HJK, is \angle 1 \cong \angle 2? How do you know?



10) If $\angle A \cong \angle B$, find $m \angle A$.



11) The measures of $\angle 1$, $\angle 2$, and $\angle 3$ are in the ratio 1: 3: 2. Find the measure of each angle.



12) Is it possible for both ∠NOR and ∠POS to be right angles?

Why or why not. Tell me how you know?

R

60°

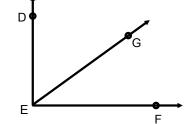
70°

0

13) Given: $\angle DEG = (x + 3y)^{\circ}$ $\angle GEF = (2x + y)^{\circ}$

a) Solve for y in terms of x.

∠DEF is a right angle.



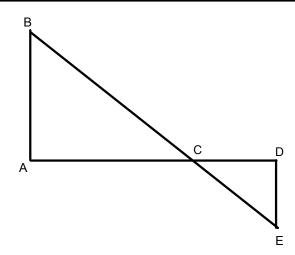
b) If \angle DEG \cong \angle GEF, find the values of x and y.

14) Given: WY = 25; The ratio of WX to XY is 3:2. Find WX.



15. The measure of $\angle A$ is 6 greater than twice the measure of $\angle B$. If the angles's sum is 42°, find the measure of $\angle A$.

16. What can we assume from this diagram?



17) What are the restrictions on the third side length of a triangle with the following side lengths?

a) 29, 8, x

b) 100, 52, y

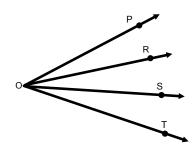
18) Can you make a triangle with sides of length...?

a) 10, 6, 12

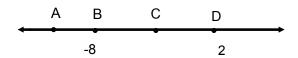
- b) 47, 50, 1
- c) 100, 60, 40

19. Given: OR and OS trisect∠TOP. ∠TOP = 57.6°

Find: m∠POR



20) a) Find the coordinate of C (the midpoint of BD).



- b) If AD = 15, find the coordinate of A.
- 21) ∠Q is obtuse.
 - a) What are the limitations on m∠Q?(Write two inequalities)
 - b) What are the restrictions on x?

