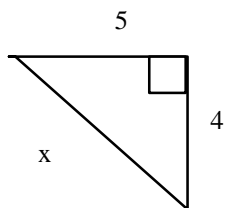


# GEOMETRY Final Review

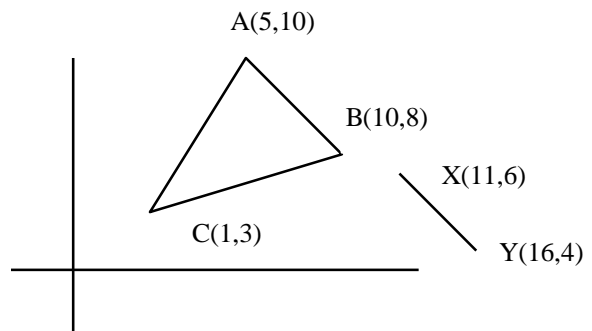
2. The length of the side "x" is

- a) 3
- b)  $3\sqrt{2}$
- c) 45
- d)  $\sqrt{41}$

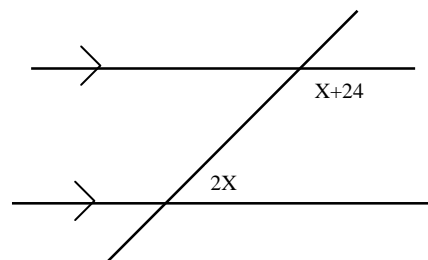


triangle ABC is congruent to triangle XYZ

- a) (8, 0)
- b) (8, -1)
- c) (7, -1)
- d) (7, 0)



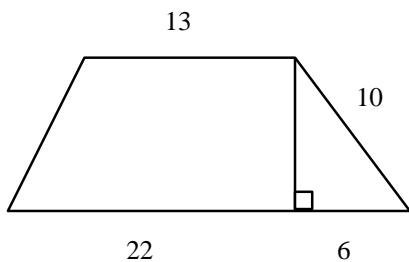
8.  $x = ?$  a) 8 b) 41 c) 68 d) 52



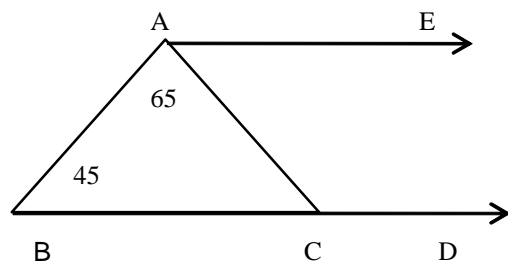
NAME: \_\_\_\_\_

5. What is the area of the shape?

- a) 164 sq. units
- b) 41 sq. units
- c) 328 sq. units
- d) 61 sq. units



For problems 9 - 11 use the diagram.

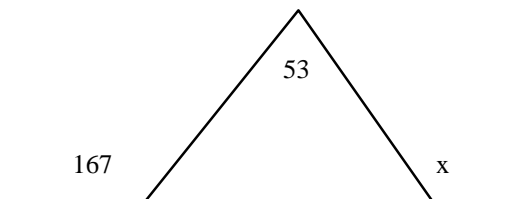


9.  $m\angle ACB = ?$  a) 70 b) 45 c) 110 d) 65

10.  $m\angle ACD = ?$  a) 65 b) 110 c) 115 d) 45

11.  $m\angle CAE = ?$  a) 45 b) 110 c) 70 d) 135

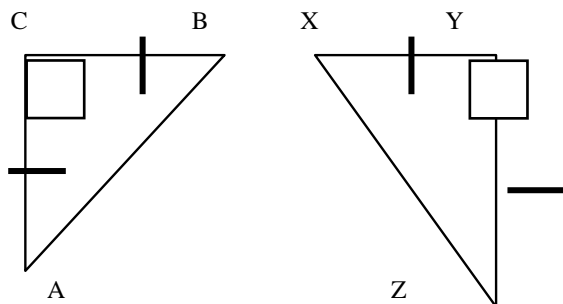
12.  $x = ?$  a) 114 b) 167 c) 53 d) 66



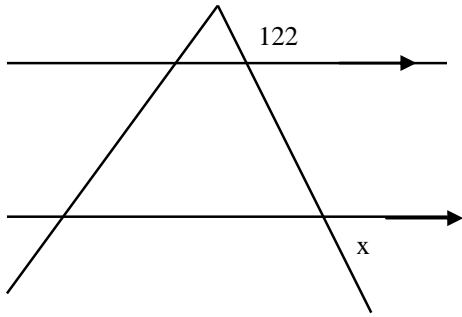
13.  $x = ?$  a) 32 b) 148 c) 122 d) 58

6. Based on the markings shown, which of these is a true statement ?

- a)  $\triangle ABC \cong \triangle XYZ$  by AAA
- b)  $\triangle ABC \cong \triangle YXZ$  by AAS
- c)  $\triangle ABC \cong \triangle ZXY$  by SAS
- d)  $\triangle ABC \cong \triangle XYZ$  by ASA



7. Find coordinate of a point Z, so that

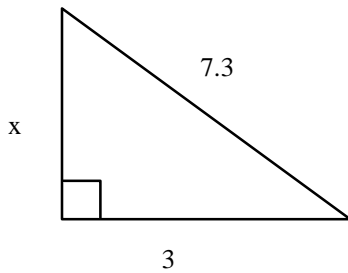


14. Two sides of a triangle are 3 and 8. What is the range of possible values for the length of side "x"

- a)  $x = \text{square root of } 73$       b)  $3 < x < 8$   
 c)  $5 < x < 11$       d)  $x = 22$

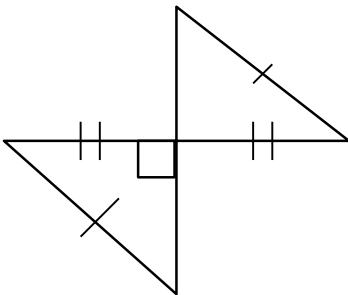
15. Solve the following polygon for "x".

- a) 6.7      b) 4.3  
 c) 7.9      d) 5.2



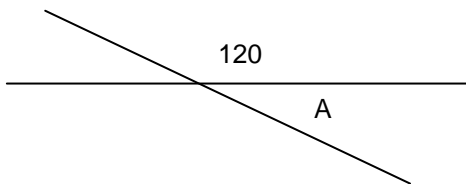
16. In the figure at the figure below how would you prove that the two triangles are congruent ?

- a) ASA    b) HL    c) HA    d) SSS



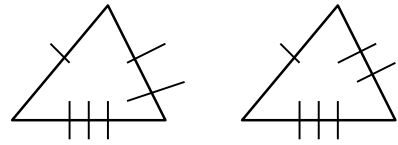
17. Solve for A.

- a) 40    b) 50    c) 60    d) 70



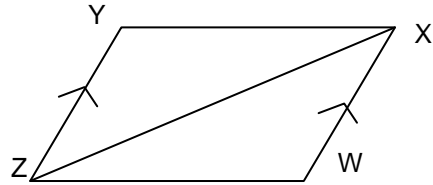
18. How would you prove that the triangles are congruent?

- a) HL    b) ASA    c) SSS    d) SAS



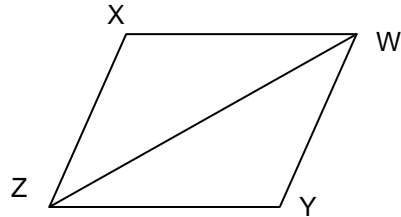
19. In the figure below you could prove that triangle ZYX congruent to triangle XWZ by

- a) ASA    b) AAS    c) HL    d) not congruent



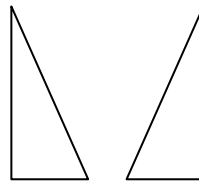
20. In the parallelogram below how could you prove that triangle WYZ is congruent to triangle ZXW?

- a) ASA    b) ASS    c) SSS    d) AAA



21. The transformation shown is an example of a:

- a) translation    b) rotation  
 c) isometric    d) reflection



22. If triangle DOG is congruent to triangle CAT then which of the following is true?

- a)  $DG = CA$     b)  $DO = AT$   
 c)  $GO = AC$     d)  $DG = CT$

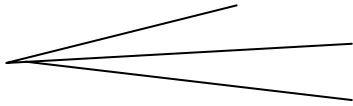
23. Find the midpoint of the segment connecting the points (1,3) and (5,9).

- a) (3,6)    b) (2,7)    c) (4,5)    d) (2,3)

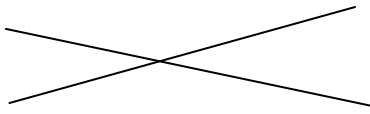
**For problems 24 - 35 choose the appropriate description to match the given picture.**

24. a) adjacent angles      b) supplementary angles

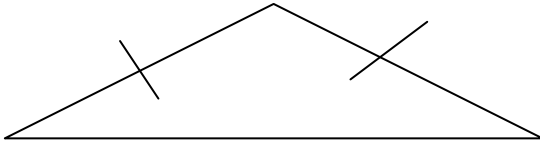
- c) complementary angles d) vertical angle



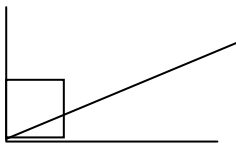
25. a) perpendicular lines b) corresponding angles  
c) alternate interior angles d) vertical angles



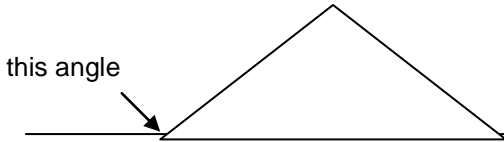
26. a) right triangle b) scalene triangle  
c) isosceles triangle d) equilateral triangle



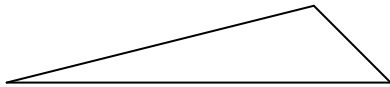
27. a) complementary angles b) obtuse angle  
c) corresponding angles d) supplementary angles



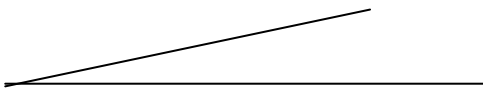
28. a) straight angle b) exterior angle  
c) right angle d) acute angle



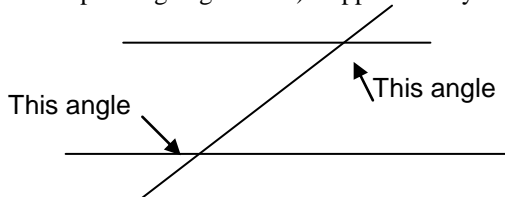
30. a) isosceles triangle b) scalene triangle  
c) prism d) right triangle



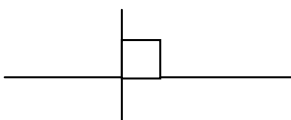
31. a) straight angle b) acute angle  
c) obtuse angle d) complementary angle



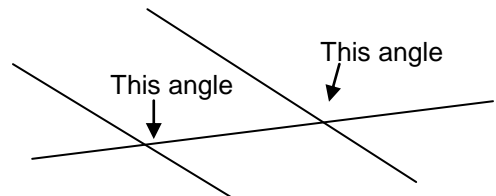
32. a) complementary angles b) alternate interior angles  
c) corresponding angles d) supplementary angles



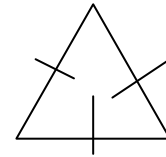
33. a) parallel lines b) straight angle  
c) acute angle d) perpendicular lines



34. a) scalene angles b) corresponding angles  
c) alternate interior angles d) exterior angles



35. a) isosceles triangle b) scalene triangle  
c) equilateral triangle d) obtuse triangle



36. Adjacent angles:  
a) are complementary  
b) share common interior points  
c) are supplementary  
d) share a common side

38. When reflecting the point (4,2) about the x axis the coordinates of the reflected point are:

- a) (-4,2) b) (4,-2) c) (-4,-2) d) (4,2)

39. When reflecting the point (4,2) about the y axis the coordinates of the reflected point are:

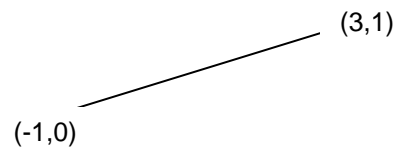
- a) (-4,2) b) (4,-2) c) (-4,-2) d) (4,2)

40. If  $\triangle OGD \cong \triangle HAT$  then  $\triangle DOG \cong$

- a)  $\triangle THA$  b)  $\triangle TAH$  c)  $\triangle OGD$  d)  $\triangle GDO$

41. Calculate the slope of line segment AB

- a) 4/1 b) 1/4 c) 2/1 d) 1/2

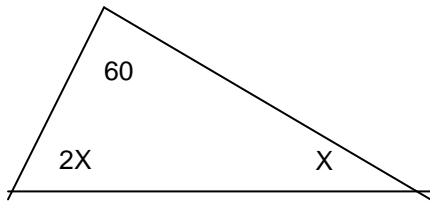


42. What is the length of the third side of a triangle whose other two sides are 5 and 13?

- a)  $5 < x < 13$  b)  $5 < x < 18$   
c)  $8 < x < 13$  d)  $8 < x < 18$

43. Find the measure of x

- a) 23.5   b) 37   c) 40   d) 46

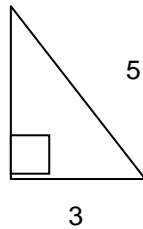


50. What is the slope of the line passing through (2,0) and (3,5)

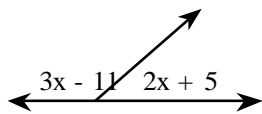
- a) 5   b) -5   c) 2/5   d) 5/2

44. Find the perimeter

- a) 4  
b) 12  
c) 6  
d) 15

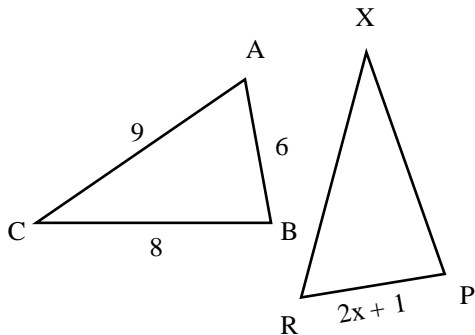


45. Solve for x



- a) 40.75   b) 16   c) 49   d) 37.2

46. Triangle ABC is congruent to triangle RPX  
Solve for x



- a) 2.5   b) 3.5   c) 4   d) 180

48. Write the converse of the statement "If two lines are parallel then the corresponding angles are congruent"

- a) If two line are parallel then the alternate interior angles are congruent.  
b) It two lines are parallel then the interior angles on the same side of the transversal are congruent.  
c) If the alternate interior angles are congruent then the line are parallel  
d) If the corresponding angles are congruent then the two line are parallel