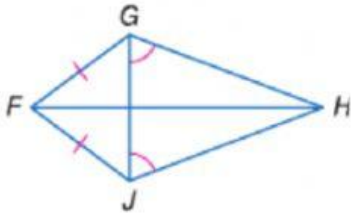
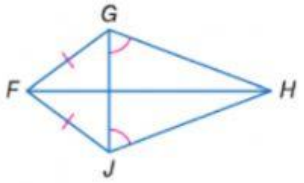
Grade 9 Advance Term 3 Revision

1. Name the 2 unmarked congruent angles:



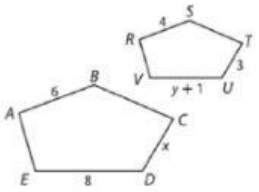
   i) Angle FGJ and angle FJG
   ii) FG and FJ
   iii) Angle F and angle H
   iv) No angles

2. Name 2 unmarked congruent sides:



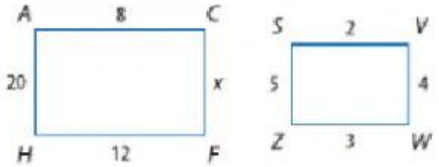
   i) FG and FJ
   ii) GH and JH
   iii) FH and GJ
   iv) No answer

3. Find the value of x & y



   i) X = 4.5, y = 13/3
   ii) X = 5, y = 4
   iii) X = 5.4, y = 13
   iv) X = 6, y = 12/7

4. Find the value of x if both polygons are similar:



   i) 0
   ii) 16
   iii) 1/ 16
   iv) Cant be calculated

Grade 9 Advance Term 3 Revision

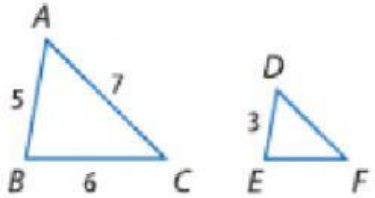
5. Two similar rectangles have a scale factor of 2 :4. The perimeter of large rectangle is 80 meters. Find the perimeter of small rectangle.

   i) 100
   ii) 80
   iii) 20
   iv) 40

6. If the total distance between 3rd avenue and city mall is 3201 feet, find the distance between 5th avenue and city mall.

   i) 1569.5 ft
   ii) 2000 ft
   iii) 2360.3 ft
   iv) 3678 ft

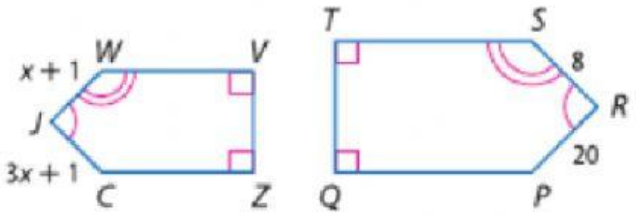
7. Find the perimeter of ΔDEF, if $\Delta ABC \sim \Delta DEF$, AB = 5, BC = 6, AC = 7 and DE = 3:



   i) 14
   ii) 12.8
   iii) 10.8
   iv) 11

Grade 9 Advance Term 3 Revision

8. Find the value of x if the polygons are similar:



i) 7
ii) 6
iii) 8
iv) 3

9. Solve the given proportion:

$$\frac{a+2}{a-2} = \frac{3}{2}$$

i) 20
ii) 10
iii) 5
iv) 8

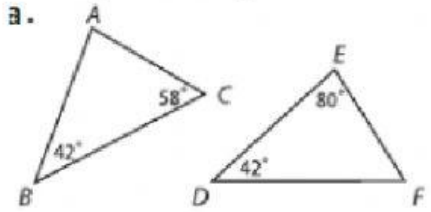
10. Nabila randomly surveyed 30 students from her class and found that 18 had a pet. If there are 870 students in her school, predict the total number of students with a pet.

i) 245
ii) 670
iii) 522
iv) 578

Grade 9 Advance Term 3 Revision

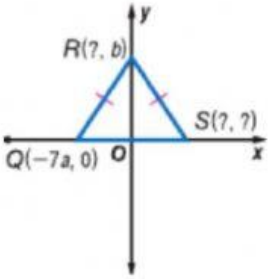
11. Identify the rule by which the triangles are similar :

a.



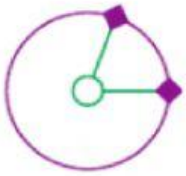
i) AA similarity
ii) SAS similarity
iii) SSS similarity
iv) Triangles are not similar

12. Identify the missing coordinates for the figure



i) S (-7a, 0) & R (b, b)
ii) S (7a, 0) & R (0, b)
iii) S (0, 0) & R (0, b)
iv) S (0, -7a) & R (b, 0)

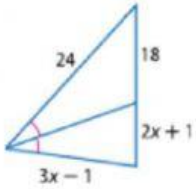
13. Identify the type of transformation in the given figure



i) Rotation
ii) Reflection
iii) Translation
iv) No transformation

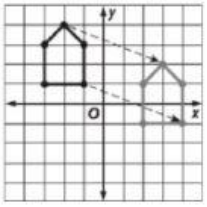
Grade 9 Advance Term 3 Revision

14. Find the value of x:



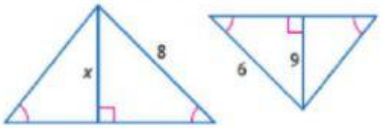
i) 7
ii) 8
iii) 9
iv) 6

15. Identify the type of transformation in the given figure



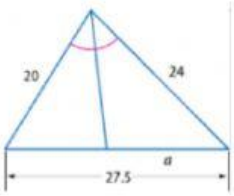
i) Translation
ii) Rotation
iii) Reflection
iv) No transformation

16. Find the value of x if the 2 triangles are similar:



i) 10
ii) 15
iii) 14
iv) 12

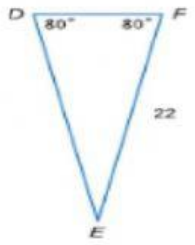
17. Find the value of a:



i) 13
ii) 14
iii) 15
iv) 16

Grade 9 Advance Term 3 Revision

18. Identify the correct measure of DE:

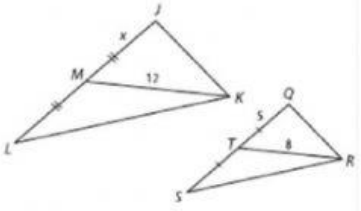


i) 10
ii) 22
iii) 15
iv) 6

19. In an isosceles triangle ABC, measure of vertex angle is 80, find the measure of each base angles

i) 120
ii) 50
iii) 80
iv) 55

20. In the figure, Δ LJK ~ Δ SQR. Find the value of x



i) 7
ii) 6.5
iii) 7.5
iv) 4.9