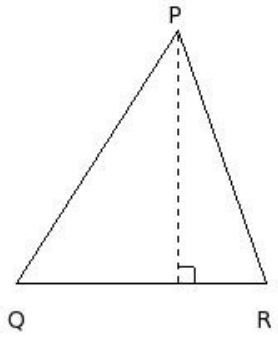
EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Areas of Parallelograms and Triangles

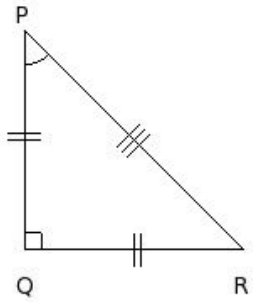
Grade : CBSE Grade IX

1. In △PQR, if base QR = 15 cm and the corresponding height of side QR = 15.12 cm, then area of the triangle =



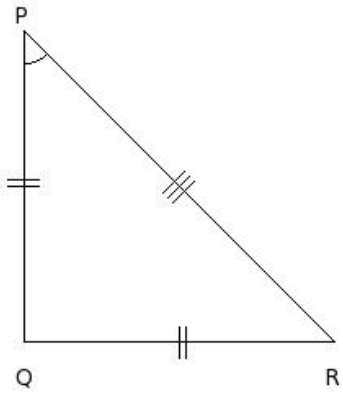
(i) 131.40 sq.cm (ii) 99.40 sq.cm (iii) 85.40 sq.cm (iv) 113.40 sq.cm (v) 118.40 sq.cm

2. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 13 cm, then area of the triangle =



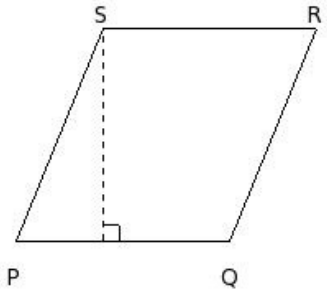
(i) 89.50 sq.cm (ii) 87.50 sq.cm (iii) 81.50 sq.cm (iv) 79.50 sq.cm (v) 84.50 sq.cm

3. In an isosceles right angled triangle △PQR, if QR = 19 cm is one of the equal sides, then area of the triangle =



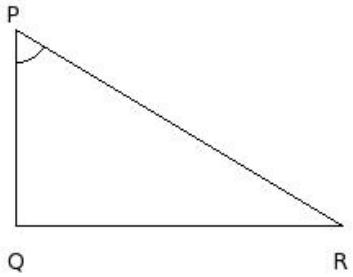
(i) 180.50 sq.cm (ii) 166.50 sq.cm (iii) 197.50 sq.cm (iv) 202.50 sq.cm (v) 157.50 sq.cm

4. In parallelogram PQRS, if base PQ = 13.00 cm and the corresponding height is 12.92 cm, then area of the parallelogram =



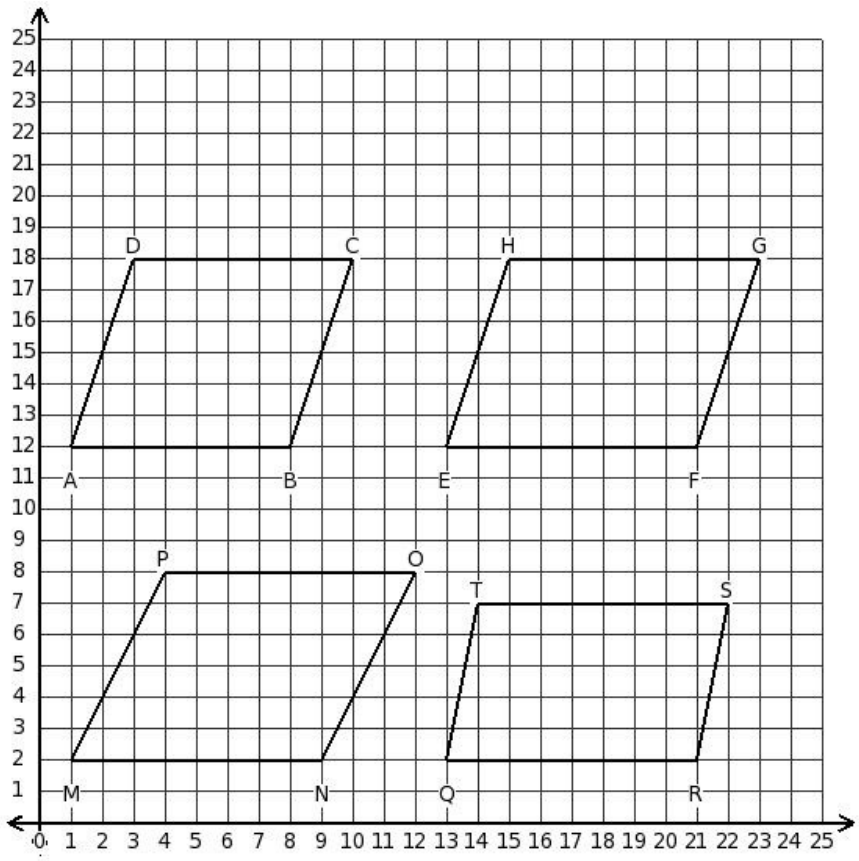
(i) 167.96 sq.cm (ii) 169.96 sq.cm (iii) 140.96 sq.cm (iv) 160.96 sq.cm (v) 185.96 sq.cm

5. In a right angled triangle △PQR, if QR = 20 cm is one of the perpendicular sides and RP = 23.32 cm is the hypotenuse, then area of the triangle =



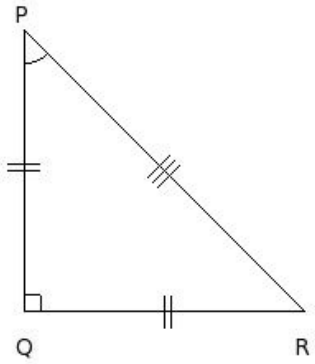
(i) 120.00 sq.cm (ii) 93.00 sq.cm (iii) 136.00 sq.cm (iv) 108.00 sq.cm

6. Consider the following parallelograms. Which two parallelograms have the same area?



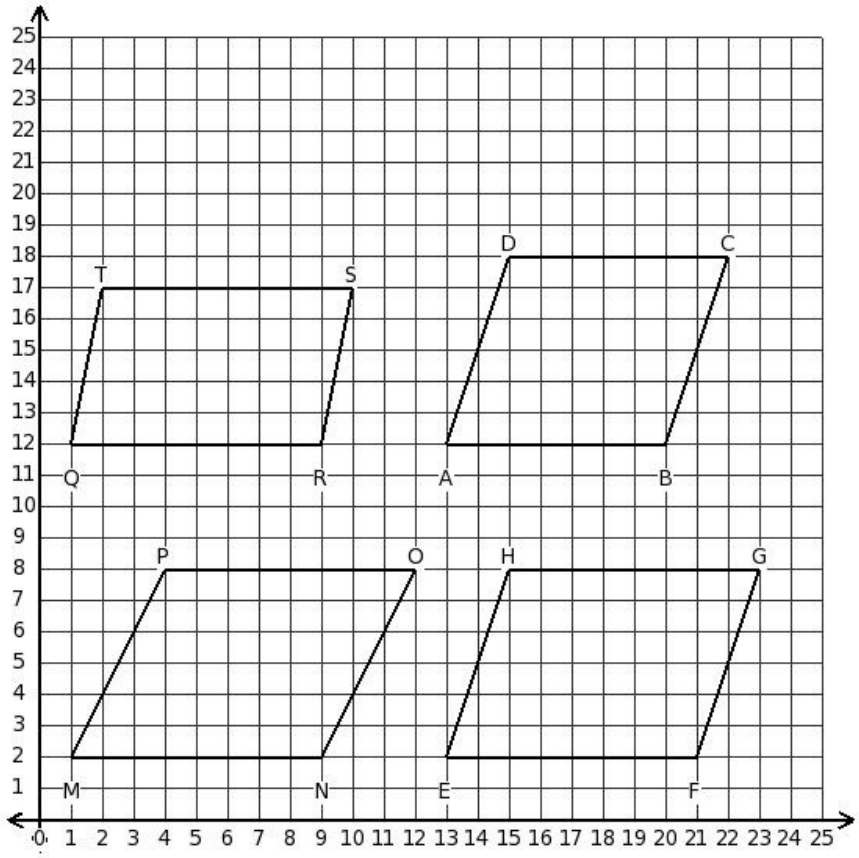
(i) EFGH and QRST (ii) ABCD and EFGH (iii) MNOP and QRST (iv) ABCD and QRST (v) EFGH and MNOP

7. In an isosceles right angled triangle △PQR, if corresponding height to the base QR is 17 cm, then area of the triangle =



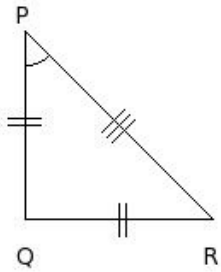
(i) 160.50 sq.cm (ii) 126.50 sq.cm (iii) 120.50 sq.cm (iv) 144.50 sq.cm (v) 162.50 sq.cm

8. Consider the following parallelograms. Which two parallelograms have the same area?



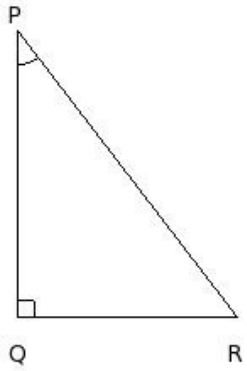
(i) ABCD and EFGH (ii) EFGH and MNOP (iii) ABCD and QRST (iv) EFGH and QRST (v) MNOP and QRST

9. In an isosceles right angled triangle △PQR, if QR = 11 cm is one of the equal sides, then area of the triangle =



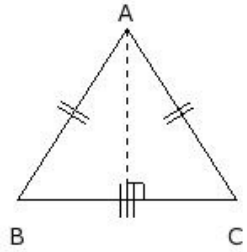
(i) 55.50 sq.cm (ii) 65.50 sq.cm (iii) 63.50 sq.cm (iv) 60.50 sq.cm (v) 57.50 sq.cm

10. In a right angled triangle △PQR, if the base QR = 13 cm and the corresponding height is 17 cm, then area of the triangle =



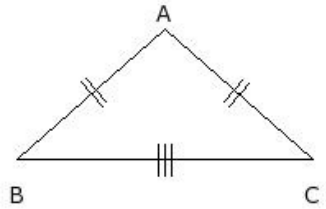
(i) 110.50 sq.cm (ii) 122.50 sq.cm (iii) 86.50 sq.cm (iv) 95.50 sq.cm (v) 117.50 sq.cm

11. In an isosceles triangle △ABC, if base BC = 13 cm and the corresponding height is 10.09 cm, then area of the triangle =



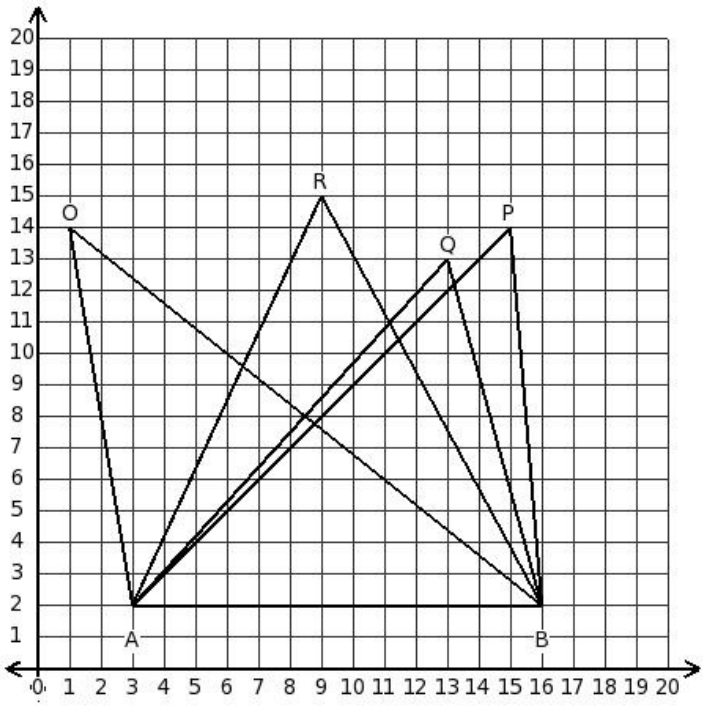
(i) 60.57 sq.cm (ii) 62.57 sq.cm (iii) 68.57 sq.cm (iv) 65.57 sq.cm (v) 70.57 sq.cm

12. In an isosceles triangle △ABC, if BC = 18 cm, AB = CA = 12 cm, then area of the triangle =



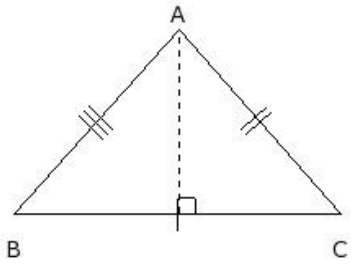
(i) 76.44 sq.cm (ii) 68.44 sq.cm (iii) 66.44 sq.cm (iv) 74.44 sq.cm (v) 71.44 sq.cm

13. Consider the following triangles. Which two triangles have the same area?



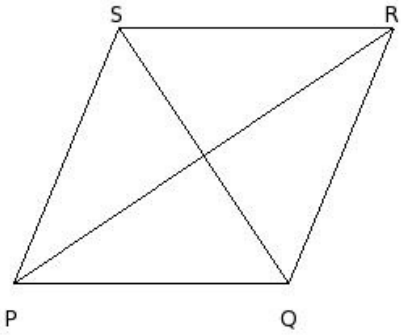
(i) △PAB and △QAB (ii) △OAB and △RAB (iii) △PAB and △RAB (iv) △OAB and △QAB (v) △OAB and △PAB

14. In an isosceles triangle △ABC, if base BC = 20 cm and the corresponding height is 11.18 cm, then area of the triangle =



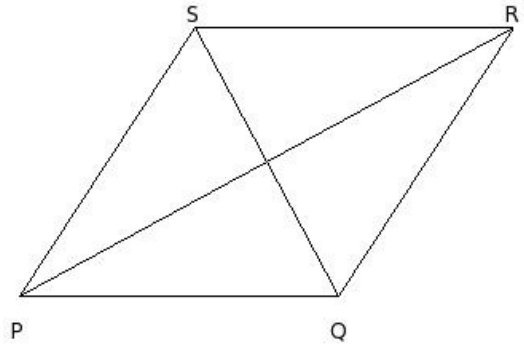
(i) 123.80 sq.cm (ii) 137.80 sq.cm (iii) 93.80 sq.cm (iv) 87.80 sq.cm (v) 111.80 sq.cm

15. In rhombus PQRS, if diagonals QS = 19.00 cm and PR = 28.20 cm, the area of the rhombus =



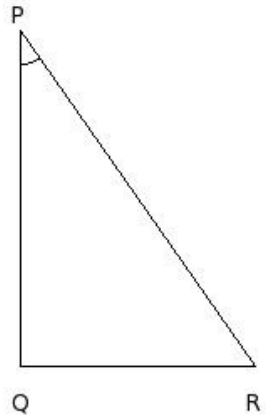
(i) 281.90 sq.cm (ii) 267.90 sq.cm (iii) 259.90 sq.cm (iv) 250.90 sq.cm

16. In rhombus PQRS, if diagonals QS = 19.00 cm and PR = 35.20 cm, the area of the rhombus =



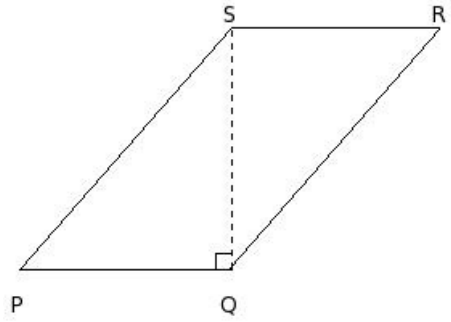
(i) 334.40 sq.cm (ii) 352.40 sq.cm (iii) 336.40 sq.cm (iv) 318.40 sq.cm (v) 317.40 sq.cm

17. In a right angled triangle △PQR, if QR = 14 cm, PQ = 20 cm are the lengths of perpendicular sides , then area of the triangle =



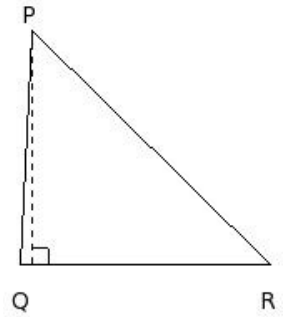
(i) 115.00 sq.cm (ii) 152.00 sq.cm (iii) 140.00 sq.cm (iv) 137.00 sq.cm (v) 148.00 sq.cm

18. In parallelogram PQRS, if base PQ = 13.00 cm and the corresponding height is 15.00 cm, then area of the parallelogram =



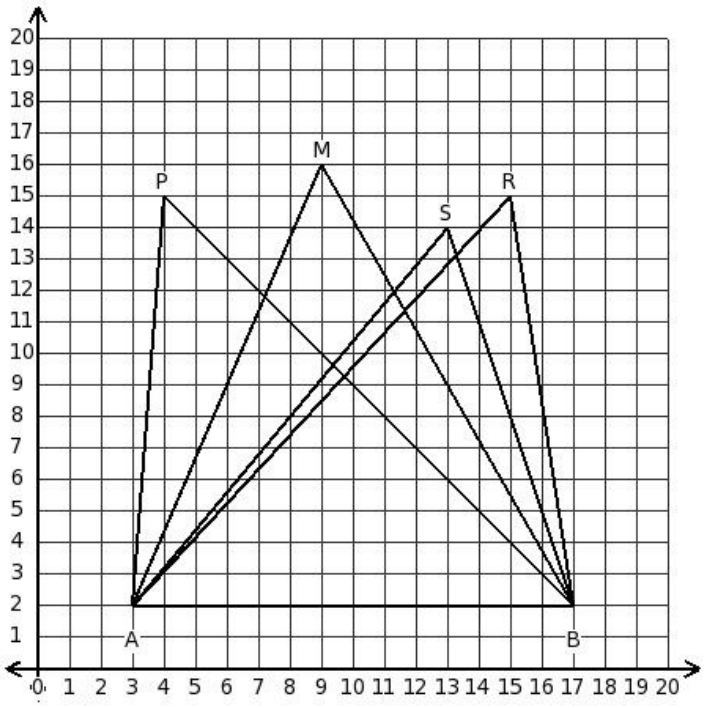
(i) 212.00 sq.cm (ii) 195.00 sq.cm (iii) 171.00 sq.cm (iv) 179.00 sq.cm

19. In △PQR, if QR = 15 cm, RP = 20 cm and the corresponding height of side QR = 13.98 cm, then area of the triangle =



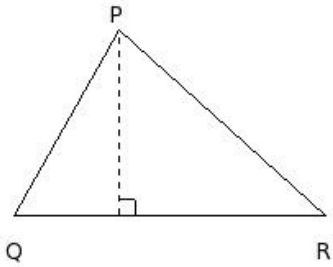
(i) 111.87 sq.cm (ii) 82.87 sq.cm (iii) 104.87 sq.cm (iv) 89.87 sq.cm (v) 131.87 sq.cm

20. Consider the following triangles. Which two triangles have the same area?



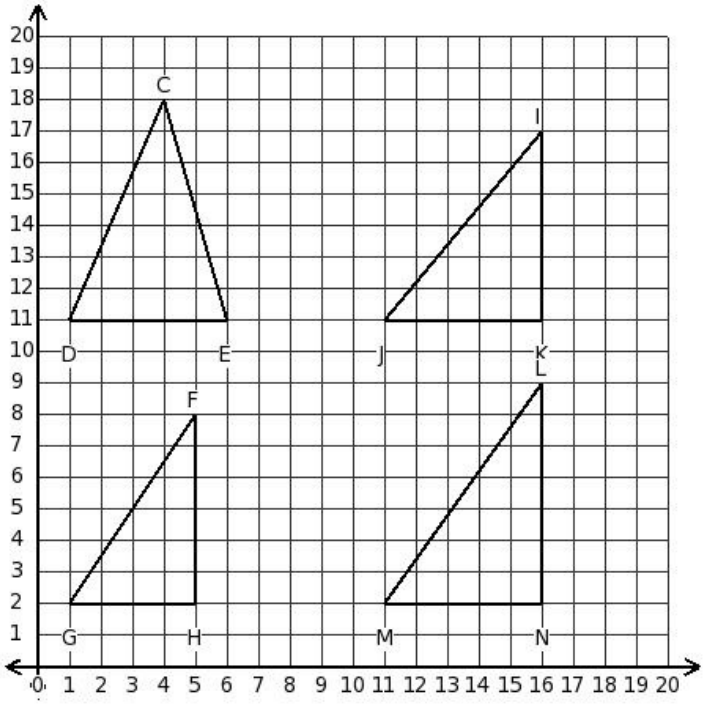
(i) △PAB and △SAB (ii) △RAB and △MAB (iii) △RAB and △SAB (iv) △PAB and △RAB (v) △PAB and △MAB

21. In △PQR, if QR = 19 cm, RP = 17 cm and the corresponding height of side QR = 11.35 cm, then area of the triangle =



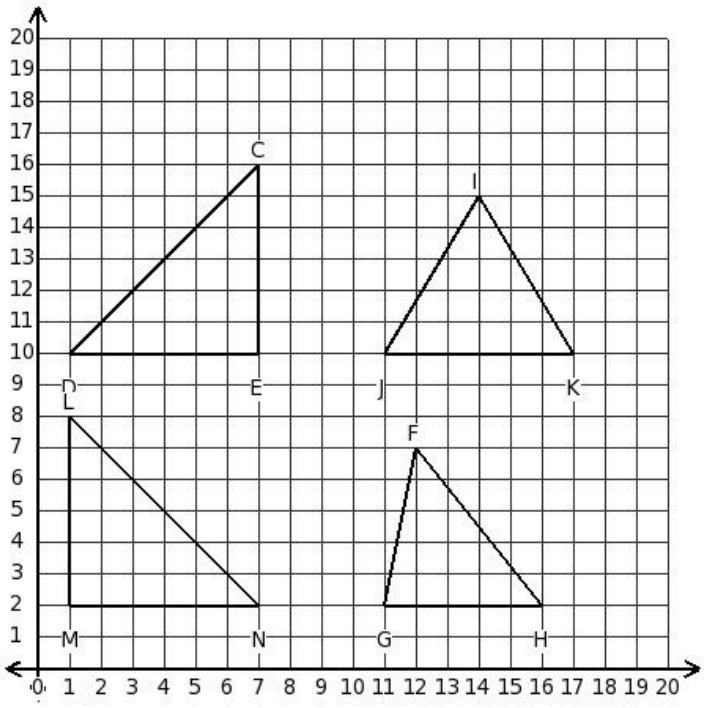
(i) 124.81 sq.cm (ii) 95.81 sq.cm (iii) 81.81 sq.cm (iv) 121.81 sq.cm (v) 107.81 sq.cm

22. Consider the following triangles. Which two triangles have the same area?



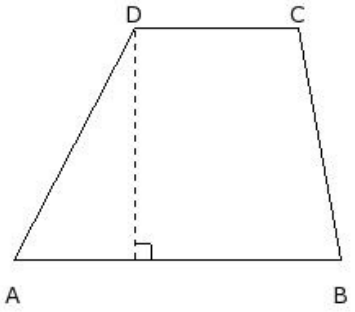
(i) △FGH and △IJK (ii) △CDE and △FGH (iii) △FGH and △LMN (iv) △CDE and △IJK (v) △CDE and △LMN

23. Consider the following triangles. Which two triangles have the same area?



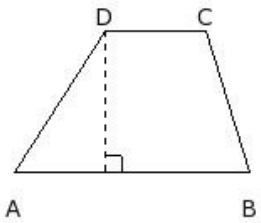
(i) △FGH and △LMN (ii) △FGH and △IJK (iii) △CDE and △FGH (iv) △CDE and △IJK (v) △CDE and △LMN

24. In trapezium ABCD, if distance between the parallel sides is 14.20 cm and lengths of the parallel sides AB = 20.00 cm and CD = 10.00 cm, then area of the trapezium =



(i) 240.00 sq.cm (ii) 226.00 sq.cm (iii) 195.00 sq.cm (iv) 213.00 sq.cm (v) 197.00 sq.cm

25. In trapezium ABCD, if distance between the parallel sides is 8.40 cm and lengths of the parallel sides AB = 14.00 cm and CD = 6.00 cm, then area of the trapezium =



(i) 81.00 sq.cm (ii) 84.00 sq.cm (iii) 87.00 sq.cm (iv) 89.00 sq.cm (v) 79.00 sq.cm

Assignment Key

1) (iv)	2) (v)	3) (i)	4) (i)	5) (i)	6) (v)
7) (iv)	8) (ii)	9) (iv)	10) (i)	11) (iv)	12) (v)
13) (v)	14) (v)	15) (ii)	16) (i)	17) (iii)	18) (ii)
19) (iii)	20) (iv)	21) (v)	22) (v)	23) (v)	24) (iv)
25) (ii)					