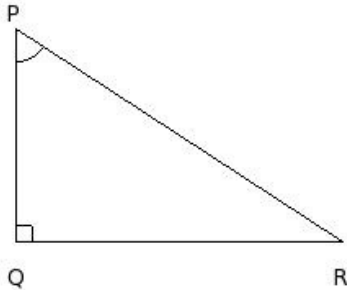


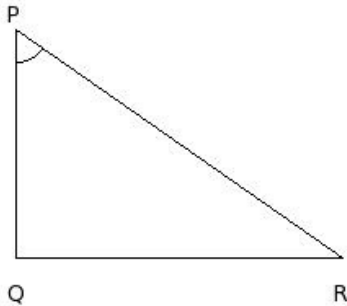


1. In a right angled triangle $\triangle PQR$, if $QR = 20$ cm, $PQ = 13$ cm are the lengths of perpendicular sides , then corresponding height of side $QR =$



- (i) 10.00 cm (ii) 13.00 cm (iii) 18.00 cm (iv) 8.00 cm (v) 16.00 cm

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

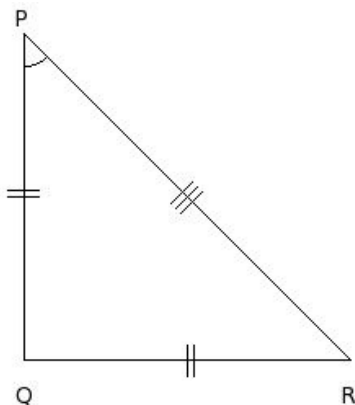


- (i) 168.00 sq.cm (ii) 152.00 sq.cm (iii) 123.00 sq.cm (iv) 117.00 sq.cm (v) 140.00 sq.cm

3. In a right angled triangle, if one of the angles is 40.6° , find the third angle

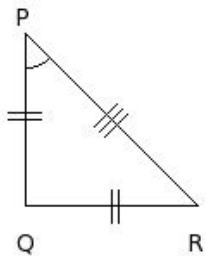
- (i) 49.4° (ii) 79.4° (iii) 54.4° (iv) 59.4° (v) 64.4°

4. In an isosceles right angled triangle $\triangle PQR$, if area = 200 sq.cm, then corresponding height of side $PQ =$



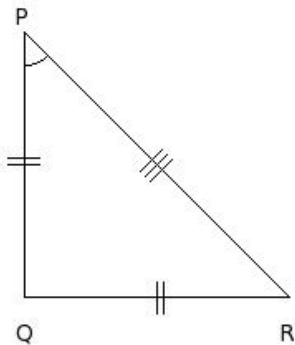
- (i) 23.00 cm (ii) 15.00 cm (iii) 20.00 cm (iv) 25.00 cm (v) 17.00 cm

5. In an isosceles right angled triangle $\triangle PQR$, if perimeter = 34.14 cm, then side PQ =



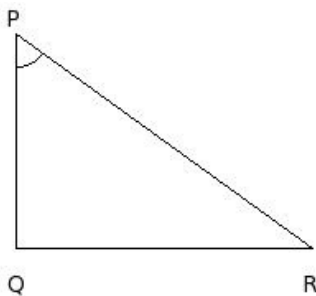
- (i) 5.00 cm (ii) 13.00 cm (iii) 10.00 cm (iv) 7.00 cm (v) 15.00 cm

6. In an isosceles right angled triangle $\triangle PQR$, if RP = 22.63 cm is the hypotenuse, then area of the triangle =



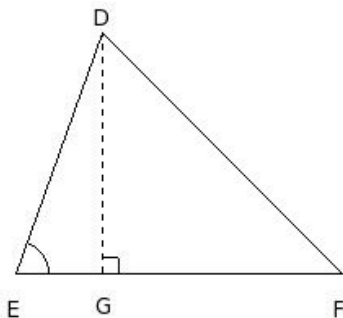
- (i) 100.00 sq.cm (ii) 128.00 sq.cm (iii) 122.00 sq.cm (iv) 146.00 sq.cm (v) 131.00 sq.cm

7. In a right angled triangle $\triangle PQR$, if the area is 117 sq.cm and base QR = 18 cm, then side PQ =



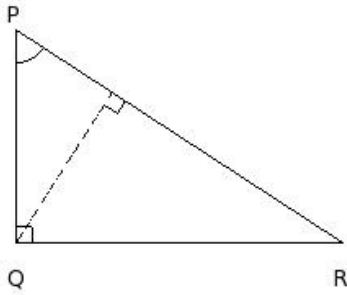
- (i) 13.00 cm (ii) 16.00 cm (iii) 10.00 cm (iv) 18.00 cm (v) 8.00 cm

8. In the given figure, $\triangle DEF$ is an acute angled triangle and $DG \perp EF$. Then



- (i) $DF^2 = DE^2 + EF^2 + 2DE \cdot EF$ (ii) $DF^2 = DE^2 + EF^2 - 2DE \cdot EF$ (iii) $DF^2 = DE^2 + EF^2 + 2EF \cdot EG$
 (iv) $DF^2 = DE^2 + EF^2 - 2EF \cdot EG$ (v) $DF^2 = DE^2 + EF^2 - DG^2$

9. In a right angled triangle $\triangle PQR$, if the area is 130 sq.cm and corresponding height of side QR = 13 cm, then corresponding height of side RP =

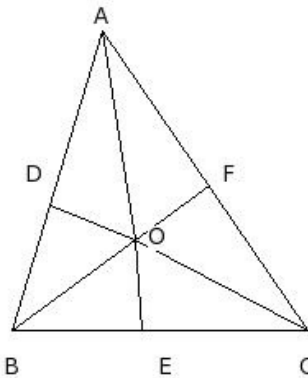


- (i) 15.90 cm (ii) 10.90 cm (iii) 5.90 cm (iv) 13.90 cm (v) 7.90 cm

10. In a right angled triangle, if the two non-hypotenuse sides are 14 cm and 48 cm, find the hypotenuse

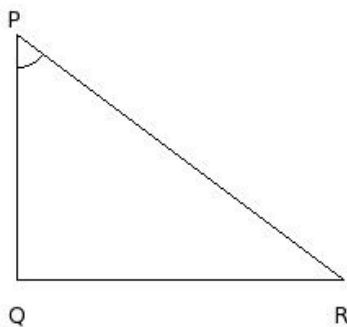
- (i) 50.00 cm (ii) 51.00 cm (iii) 49.00 cm (iv) 52.00 cm (v) 48.00 cm

11. In the given figure, ABC is a triangle and 'O' is a point inside $\triangle ABC$. The angular bisector of $\angle BOA$, $\angle COB$ & $\angle AOC$ meet AB, BC & CA at D, E & F respectively. Then



- (i) $AD \cdot BE \cdot CF = AB \cdot BC \cdot CA$ (ii) $AD \cdot BE \cdot CF = OD \cdot OE \cdot OF$ (iii) $AD \cdot BE \cdot CF = DB \cdot EC \cdot FA$
 (iv) $AD \cdot BE \cdot CF = OA \cdot OB \cdot OC$ (v) $AD \cdot BE \cdot CF = DE \cdot EF \cdot FD$

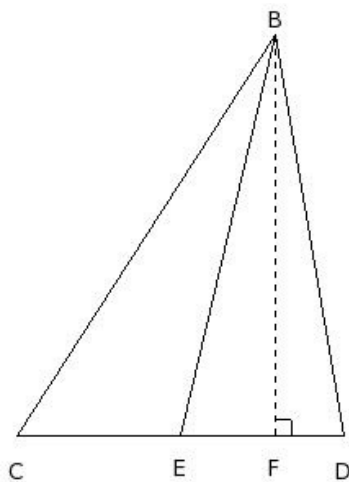
12. In a right angled triangle $\triangle PQR$, if the area is 150 sq.cm and base QR = 20 cm, then side RP =



- (i) 28.00 cm (ii) 25.00 cm (iii) 20.00 cm (iv) 30.00 cm (v) 22.00 cm

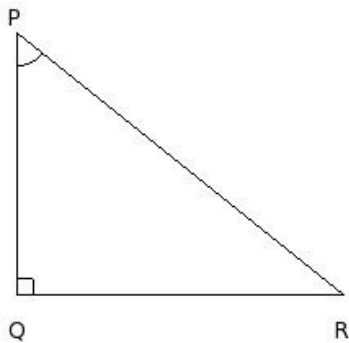
13. In the given figure, $\triangle BCD$, E is the mid-point of CD and $BF \perp CD$. Which of the following are true?

- a) $BD^2 = BE^2 + CD \cdot EF + \frac{1}{4} CD^2$
- b) $BC^2 + BD^2 = 2 BE^2 + \frac{1}{2} CD^2$
- c) $BC^2 = BE^2 - CD \cdot EF + \frac{1}{4} CD^2$
- d) $BC^2 = BF^2 - CD \cdot EF + \frac{1}{4} CD^2$
- e) $BD^2 = BF^2 + CD \cdot EF + \frac{1}{4} CD^2$



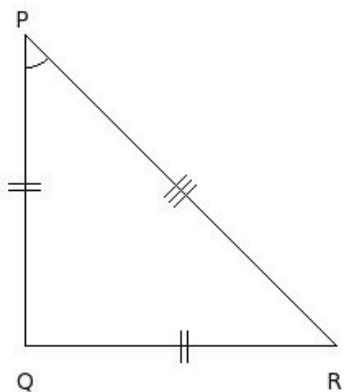
- (i) {a,b,c} (ii) {d,a} (iii) {d,e,c} (iv) {e,b} (v) {d,a,b}

14. In a right angled triangle $\triangle PQR$, if the area is 160 sq.cm and corresponding height of side QR = 16 cm, then side RP =



- (i) 25.61 cm (ii) 30.61 cm (iii) 20.61 cm (iv) 22.61 cm (v) 28.61 cm

15. In an isosceles right angled triangle $\triangle PQR$, if area = 180.5 sq.cm, then side RP =

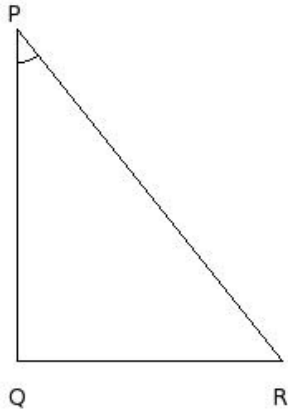


- (i) 23.87 cm (ii) 26.87 cm (iii) 31.87 cm (iv) 21.87 cm (v) 29.87 cm

16. The altitude and area of an equilateral triangle of side 'a' is

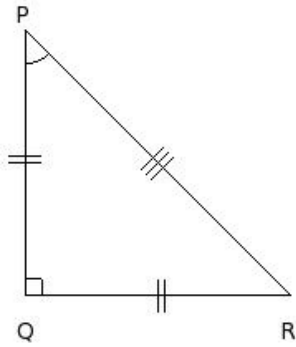
- (i) $\sqrt{3} a, \frac{1}{2} \sqrt{3} a^2$ (ii) $\frac{1}{2} \sqrt{3} a, \frac{1}{2} \sqrt{3} a^2$ (iii) $\frac{1}{2} \sqrt{3} a, \frac{1}{4} \sqrt{3} a^2$ (iv) $\sqrt{3} a, \frac{1}{2} \sqrt{3} a$

17. In a right angled triangle $\triangle PQR$, if $QR = 16$ cm is one of the perpendicular sides and $RP = 25.61$ cm is the hypotenuse, then area of the triangle =



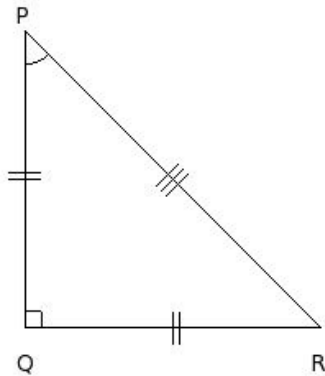
- (i) 160.00 sq.cm (ii) 187.00 sq.cm (iii) 175.00 sq.cm (iv) 147.00 sq.cm (v) 142.00 sq.cm

18. In an isosceles right angled triangle $\triangle PQR$, if corresponding height to the base QR is 16 cm, then corresponding height of side PQ =



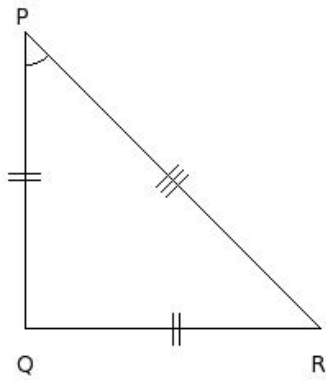
- (i) 21.00 cm (ii) 16.00 cm (iii) 19.00 cm (iv) 13.00 cm (v) 11.00 cm

19. In an isosceles right angled triangle $\triangle PQR$, if corresponding height to the base QR is 18 cm, then corresponding height of side QR =



- (i) 18.00 cm (ii) 15.00 cm (iii) 21.00 cm (iv) 13.00 cm (v) 23.00 cm

20. In an isosceles right angled triangle $\triangle PQR$, if $RP = 25.46$ cm is the hypotenuse, then side $QR =$

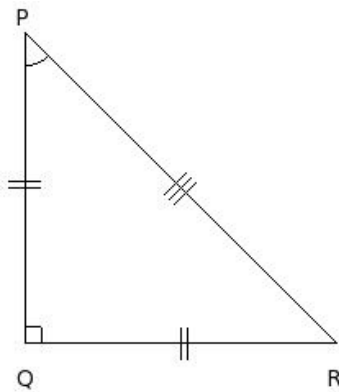


- (i) 15.00 cm (ii) 13.00 cm (iii) 21.00 cm (iv) 18.00 cm (v) 23.00 cm

21. In a right angled triangle, if one of the angles is 40.6° , find the third angle

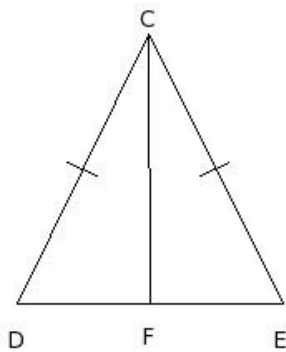
- (i) 59.4° (ii) 79.4° (iii) 64.4° (iv) 49.4° (v) 54.4°

22. In an isosceles right angled triangle $\triangle PQR$, if corresponding height to the base QR is 19 cm, then side $PQ =$



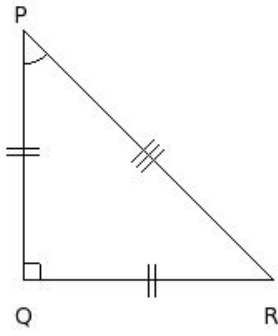
- (i) 22.00 cm (ii) 24.00 cm (iii) 16.00 cm (iv) 14.00 cm (v) 19.00 cm

23. In the given figure, $\triangle CDE$ is a triangle in which $CD = CE$ and F is a point on DE . Then



- (i) $CD^2 + CF^2 = DE^2$ (ii) $CD^2 - CF^2 = CF \cdot EF$ (iii) $CD^2 + CF^2 = DF \cdot EF$ (iv) $CD^2 - CF^2 = CF \cdot DF$
 (v) $CD^2 - CF^2 = DF \cdot EF$

24. In an isosceles right angled triangle $\triangle PQR$, if corresponding height to the base QR is 15 cm, then side QR =



- (i) 18.00 cm (ii) 15.00 cm (iii) 12.00 cm (iv) 20.00 cm (v) 10.00 cm

25. In an equilateral triangle ABC, the side BC is trisected at D. Then

- (i) $7 AD^2 = 9 AB^2$ (ii) $9 AD^2 = 7 AB^2$ (iii) $7 AD^2 = 3 AB^2$ (iv) $3 AD^2 = 7 AB^2$

Assignment Key

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