Find the area of each cyclic quadrilateral below:

$AB = 4, BC = 4, CD = 4, AD = 4$

16

$AB = 3, BC = 5, CD = 5, AD = 5$

$s = \frac{3+5+5+5}{2} = 9$

$[ABCD] = \sqrt{(9-3)(9-5)(9-5)(9-5)} = 8\sqrt{6}$

$AB = 4, BC = 4, CD = 5, AD = 5$

$s = 9$

$\text{Area} = 20$

$AB = 1, BC = 3, CD = 5, AD = 5$

$s = 7$

$\sqrt{6 \times 4 \times 2 \times 2} = 4\sqrt{6}$

$AB = 3, BC = 3, CD = 3, AD = 3$

9

$AB = 1, BC = 1, CD = 1, AD = 1$

1

$AB = 5, BC = 5, CD = 6, AD = 6$

30

$AB = 3, BC = 3, CD = 5, AD = 7$

$S = 9$

$\sqrt{6 \times 6 \times 4 \times 2} = 12\sqrt{2}$

$AB = 3, BC = 3, CD = 3, AD = 5$

$S = 7$

$\sqrt{4^3 \times 2} = 8\sqrt{2}$

$AB = 5, BC = 6, CD = 7, AD = 8$

$S = 13$

$\sqrt{5 \times 6 \times 7 \times 8} = 4\sqrt{105}$

$AB = 2, BC = 4, CD = 6, AD = 8$

$S = 10$

$\sqrt{2 \times 4 \times 6 \times 8} = 8\sqrt{6}$

$AB = 3, BC = 3, CD = 4, AD = 6$

$S = 8$

$\sqrt{5^2 \times 4 \times 2} = 10\sqrt{2}$

$AB = 2, BC = 4, CD = 6, AD = 8$

$S = 10$

$\therefore 8\sqrt{6}$

$AB = 5, BC = 5, CD = 5, AD = 7$

$S = 11$

$\therefore \sqrt{6^3 \times 4} = 12\sqrt{6}$

$AB = 4, BC = 6, CD = 8, AD = 8$

$S = 13$

$\therefore \sqrt{9 \times 7 \times 5^2} = 15\sqrt{7}$

$AB = 1, BC = 2, CD = 3, AD = 4$

$S = 5$

$\therefore 2\sqrt{6}$

$AB = 5, BC = 6, CD = 6, AD = 7$

$S = 12$

$\therefore 6\sqrt{35}$

$AB = 2, BC = 4, CD = 6, AD = 8$

$S = 10$

$\therefore 8\sqrt{6}$

$AB = 3, BC = 3, CD = 3, AD = 3$

9

$AB = 2, BC = 3, CD = 4, AD = 3$

$S = 6$

$\therefore 6\sqrt{2}$