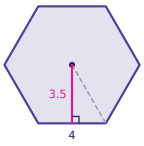
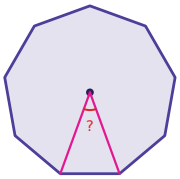
Area of Regular Polygons (Apothem) · 1

A regular hexagon has side length 4 and apothem 3.5. Find its area.



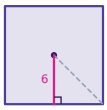
Area of Regular Polygons (Apothem) · 2

Find the measure of a central angle of a regular nonagon.



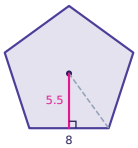
Area of Regular Polygons (Apothem) · 3

A square has an apothem of 6. Find its area.



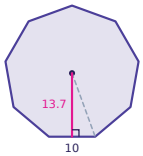
Area of Regular Polygons (Apothem) · 4

A regular pentagon has side length 8 and apothem 5.5. Find its area.



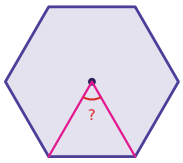
Area of Regular Polygons (Apothem) · 5

A regular nonagon has side length 10 and apothem 13.7. Find its area.



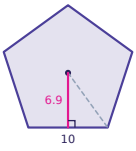
Area of Regular Polygons (Apothem) · 6

Find the measure of a central angle of a regular hexagon.



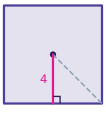
Area of Regular Polygons (Apothem) · 7

A regular pentagon has side length 10 and apothem 6.9. Find its area.



Area of Regular Polygons (Apothem) · 8

A square has an apothem of 4. Find its area.



Area of Regular Polygons (Apothem) · 2

ANSWER

40°

Area of Regular Polygons (Apothem) · 1

ANSWER

42

Area of Regular Polygons (Apothem) · 4

ANSWER

110

Area of Regular Polygons (Apothem) · 3

ANSWER

144

Area of Regular Polygons (Apothem) · 6

ANSWER

60°

Area of Regular Polygons (Apothem) · 5

ANSWER

616.5

Area of Regular Polygons (Apothem) · 8

ANSWER

64

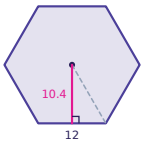
Area of Regular Polygons (Apothem) · 7

ANSWER

172.5

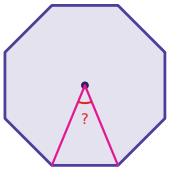
Area of Regular Polygons (Apothem) · 9

A regular hexagon has side length 12 and apothem 10.4. Find its area.



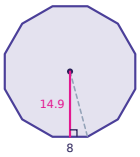
Area of Regular Polygons (Apothem) · 10

Find the measure of a central angle of a regular octagon.



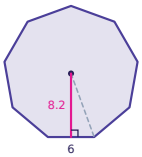
Area of Regular Polygons (Apothem) · 11

A regular dodecagon has side length 8 and apothem 14.9. Find its area.



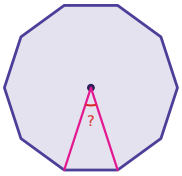
Area of Regular Polygons (Apothem) · 12

A regular nonagon has side length 6 and apothem 8.2. Find its area.



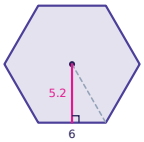
Area of Regular Polygons (Apothem) · 13

Find the measure of a central angle of a regular decagon.



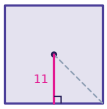
Area of Regular Polygons (Apothem) · 14

A regular hexagon has side length 6 and apothem 5.2. Find its area.



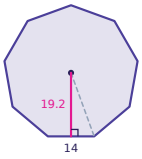
Area of Regular Polygons (Apothem) · 15

A square has an apothem of 11. Find its area.



Area of Regular Polygons (Apothem) · 16

A regular nonagon has side length 14 and apothem 19.2. Find its area.



Area of Regular Polygons (Apothem) · 10

ANSWER

45°

Area of Regular Polygons (Apothem) · 9

ANSWER

374.4

Area of Regular Polygons (Apothem) · 12

ANSWER

221.4

Area of Regular Polygons (Apothem) · 11

ANSWER

715.2

Area of Regular Polygons (Apothem) · 14

ANSWER

93.6

Area of Regular Polygons (Apothem) · 13

ANSWER

36°

Area of Regular Polygons (Apothem) · 16

ANSWER

1209.6

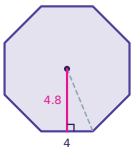
Area of Regular Polygons (Apothem) · 15

ANSWER

484

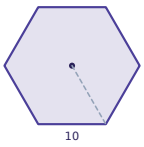
Area of Regular Polygons (Apothem) · 17

A regular octagon has side length 4 and apothem 4.8. Find its area.



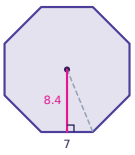
Area of Regular Polygons (Apothem) · 18

Find the area of a regular hexagon with side length 10. Write your answer in simplest radical form.



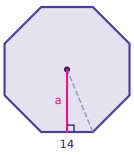
Area of Regular Polygons (Apothem) · 19

A regular octagon has side length 7 and apothem 8.4. Find its area.



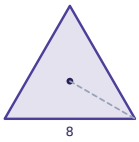
Area of Regular Polygons (Apothem) · 20

A regular octagon has side length 14 and area 946. Find its apothem.



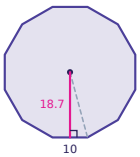
Area of Regular Polygons (Apothem) · 21

Find the area of an equilateral triangle with side length 8. Write your answer in simplest radical form.



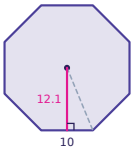
Area of Regular Polygons (Apothem) · 22

A regular dodecagon has side length 10 and apothem 18.7. Find its area.



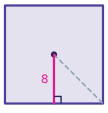
Area of Regular Polygons (Apothem) · 23

A regular octagon has side length 10 and apothem 12.1. Find its area.



Area of Regular Polygons (Apothem) · 24

A square has an apothem of 8. Find its area.



Area of Regular Polygons (Apothem) · 18

ANSWER

$150\sqrt{3}$

Area of Regular Polygons (Apothem) · 17

ANSWER

76.8

Area of Regular Polygons (Apothem) · 20

ANSWER

16.9

Area of Regular Polygons (Apothem) · 19

ANSWER

235.2

Area of Regular Polygons (Apothem) · 22

ANSWER

1122

Area of Regular Polygons (Apothem) · 21

ANSWER

$16\sqrt{3}$

Area of Regular Polygons (Apothem) · 24

ANSWER

256

Area of Regular Polygons (Apothem) · 23

ANSWER

484