Opener with Areas

Name

For each, find the formula for the area of the figure in terms of x.

1. A square with sides of length x.

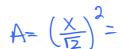


2. A square with diagonals of length x.



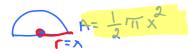








3. A semi-circle with radius of x.



4. A semi-circle with diameter of x.



$$L = 7q = 7x$$

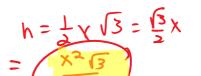
$$A = \frac{1}{2}\pi \left(\frac{1}{2}x\right)^2 = \frac{1}{2}$$

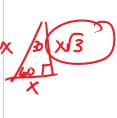


5. An equilateral triangle with sides of length x



A=1 bh) = 3 x (3





6. An isosceles right triangle with legs of length x.



A=



7. An isosceles right triangle with hypotenuse of length x.



