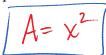
Opener with Areas

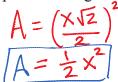
Name

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

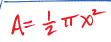
1. A square with sides of length x.

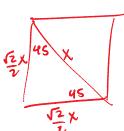


2. A square with diagonals of length x.

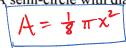


3. A semi-circle with radius of x.





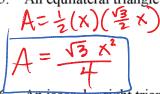
4. A semi-circle with diameter of x.



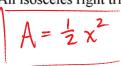


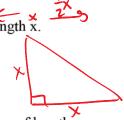
$$A = \frac{1}{2} \left(\frac{1}{2} X \right)^2 \pi$$
$$= \frac{1}{8} \pi X^2$$

5. An equilateral triangle with sides of length x.



An isosceles right triangle with legs of length x.





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

$$\frac{A^{-\frac{1}{2}(\frac{52}{2}x)}}{A^{-\frac{1}{4}x^{2}}}$$

