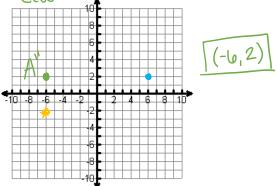
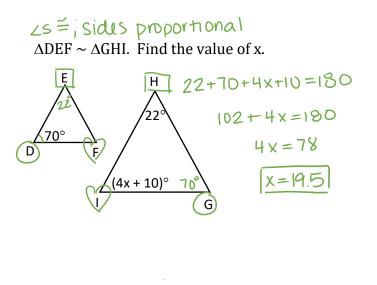
## Geometry semester 2 MIXED REVIEW

What is the image of (6, 2) when it is rotated 180° and then reflected over the x-axis?

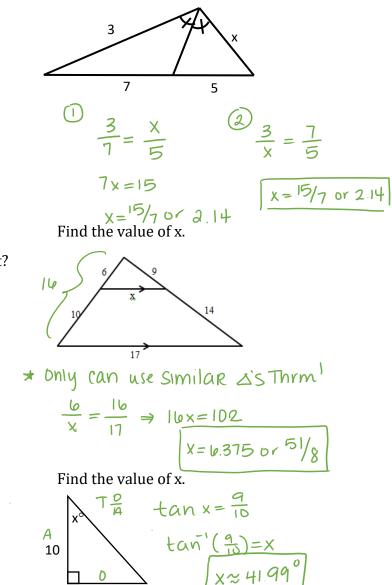


Name: \_\_\_

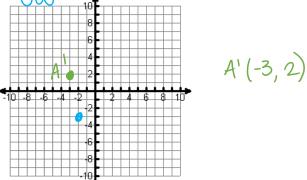


When the point (2, -7) is reflected across the line y = x, what is the location of the new point?

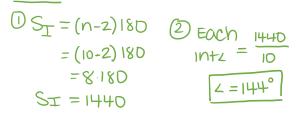
Find the value of x.

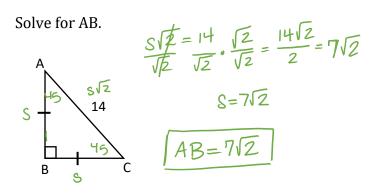


When the point (-2, -3) is rotated about the origin  $(-90^\circ)$ , what is the location of the new point?



Find each interior angle of a regular convex decagon. n = 10





Find the area of the circle, given the circumference of the circle is  $20\pi$ .

$$D C = 2\pi r Q A = \pi r^{2}$$

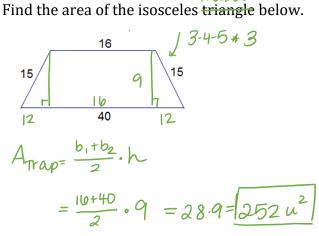
$$\frac{20\pi}{2} = 2\pi r A = \pi (10)^{2}$$

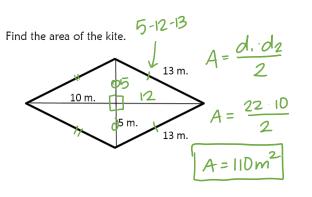
$$10 = r \qquad \left[ A = 100\pi u^{2} \right]$$

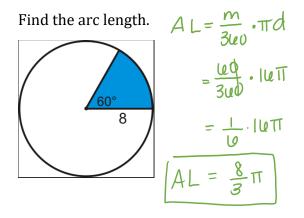
Find the area of an equilateral triangle with a side length of 10.

$$A_{a} = \frac{5^{2}\sqrt{3}}{4}$$
$$= \frac{10^{2}\sqrt{3}}{4} = \frac{100\sqrt{3}}{4} = 25\sqrt{3} u^{2}$$

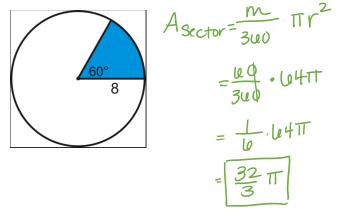
Find the area of the isosceles triangle below.



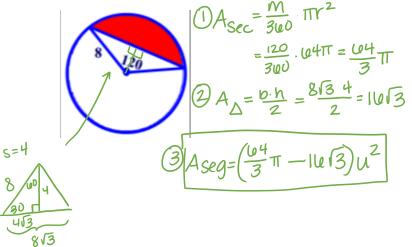




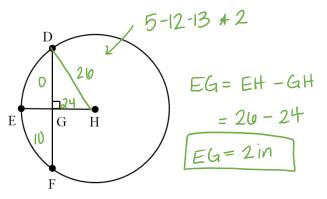
Find the area of the sector.



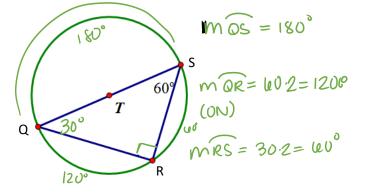
Find the area of the segment.



Given Circle H with a radius 26 inches long and DF = 20 inches. Find EG.



Find the measure of  $\widehat{QS}$ ,  $\widehat{QR}$ , and  $\widehat{SR}$ 



Find the total surface area of the prism.

