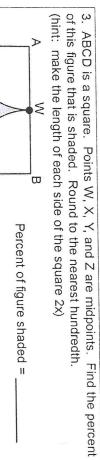
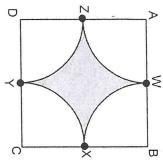
Algebra 2 Bellwork: Friday, January 30, 2015

Find the area of the shaded region.
 ABCD is a square with an area of 64 in<sup>2</sup>.
 Points W, X, Y, and Z are midpoints.

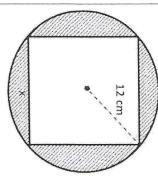
CACLAHSIN ON

Area of the shaded region = \_





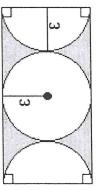
2. A square is inscribed in a circle. Find the exact area of the shaded region. Leave your answer in terms of  $\pi_{\cdot}$ 



Area of the shaded region=

Area of shaded region =

4. Find the exact area of the shaded region. Give your answer in terms of  $\boldsymbol{\pi}.$ 



Area of shaded region = \_\_\_\_\_

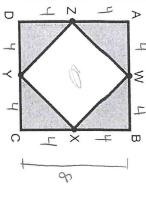
Algebra 2 Bellwork: Friday, January 30, 2015

1. Find the area of the shaded region

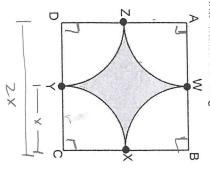
ABCD is a square with an area of 64 in<sup>2</sup> Area of the shaded region = 32 19

NONSHADED

Points W, X, Y, and Z are midpoints.

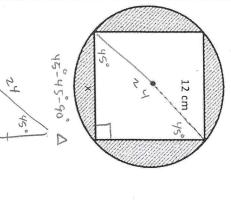


of this figure that is shaded. Round to the nearest hundredth. 3. ABCD is a square. Points W, X, Y, and Z are midpoints. Find the percent (hint: make the length of each side of the square 2x)



Percent of figure shaded = 21.46 %

Leave your answer in terms of π. 2. A square is inscribed in a circle. Find the exact area of the shaded region.



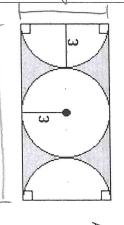
Area of the shaded region= 14477 -28 cincle Square

$$\eta(12)^{2} - \left(\frac{24}{\sqrt{2}}\right)^{2}$$

5

the square

4. Find the exact area of the shaded region. Give your answer in terms of  $\boldsymbol{\pi}.$ 



Area of shaded region =  $\frac{12 - 18\pi}{12}$ 

Rectangle - 2 circles
$$= 6(12) - 2\pi(3)^{2}$$

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