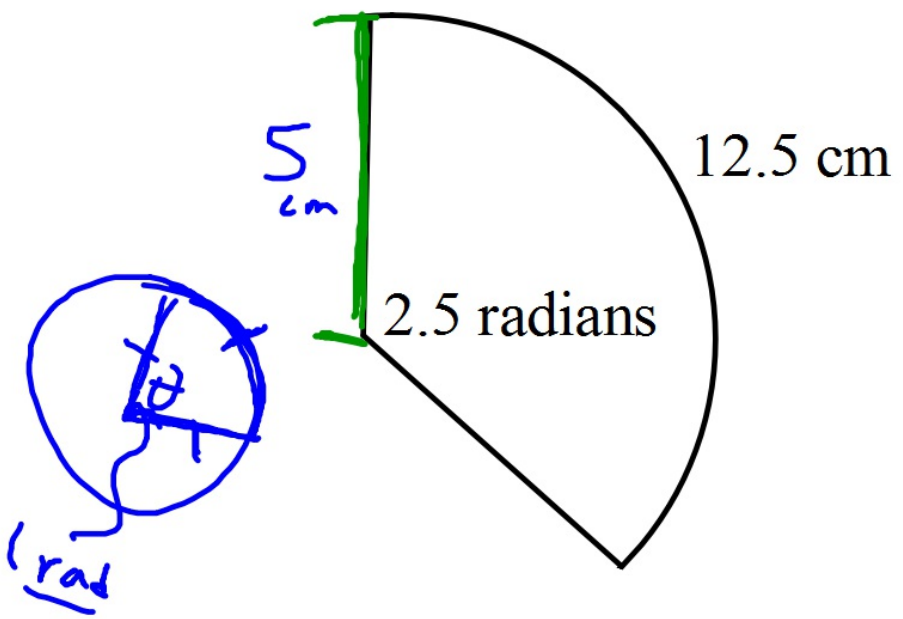
Good afternoon: warm up in notebooks:

Find the area of the sector below



formulas from a while ago:

arc length $= r\theta$

sector area $= \frac{r^2\theta}{2}$

Arc Length: $r \cdot \theta$

$\frac{12.5}{2.5} = \frac{r \cdot 2.5}{2.5}$

$5 = r$

Area: $\frac{r^2 \cdot \theta}{2}$

$\frac{5^2 \cdot (2.5)}{2}$

$= 31.25 \text{ cm}^2$

What are we doing for the rest of the year?

- assessing on radians, cross sections, and revolution
- re-learning and assessing some algebra in prep for next year
- fun stuff!

Algebra...what is it?

NOTES

El gebra

Al Jabr

$x - 10 = 0$

$4x - 3 = 0$

$x^2 - 2 = 0$

$x^2 + 1 = 0$

$\sqrt{x^2} = \sqrt{-1}$

$x = \sqrt{-1}$

$x = i$

Find all values of x such that $3x^2-x=14$

$-14 \quad -14$

- trinomial
- quadratic (x^2 equation)

$3x^2-1x-14=0$

$\pm 1, 14$

$\pm 2, 7$

$(3x-7)(x+2)=0$

Check:

$3x^2+6x-7x-14$

$3x^2-1x-14$ ✓

$(3x-7)(x+2)=0$

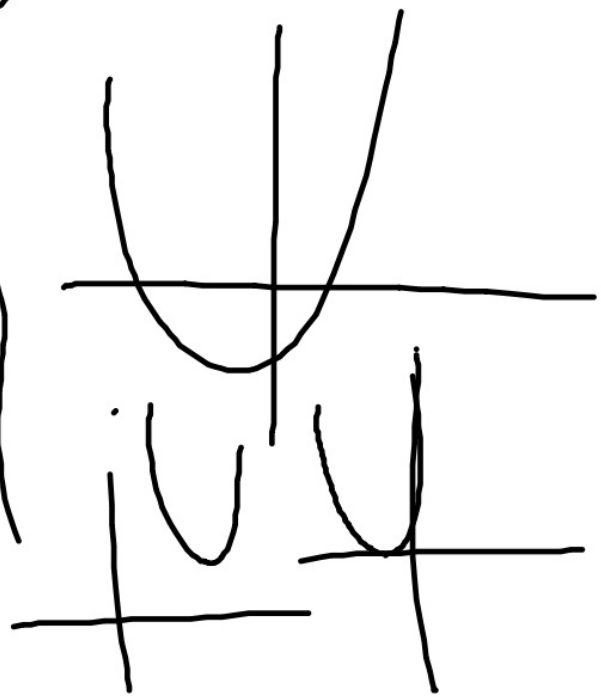
$3x-7=0$

$3x=7$

$x=\frac{7}{3}$

$x+2=0$

$x=-2$



Homework:

watch and take notes on video posted at mgeo.weebly.com