

Good afternoon and welcome back! Warm up in notebooks:  
Group these linear equations into sets of parallel and perpendicular lines

$y = -3 + \frac{2}{3}x$

A  $2x - 3y = 9$

$\frac{-3y}{-3} = \frac{9 - 2x}{-3}$

C  $9y - 6x = 9$

E  $8y = 12 - 6x$

B  $4x - 3y = 12$

D  $4x = 6y - 12$

//

$y = m x + b$

⊥

Projects due NEXT CLASS:

new seats  
next class

Online EOC:  
April 27 and 28

digital: email to [mohyuddin\\_n@hcde.org](mailto:mohyuddin_n@hcde.org) AND [nmhcde@gmail.com](mailto:nmhcde@gmail.com)

$$A \quad 2x - 3y = 9$$

$$y = \frac{2}{3}x - 3$$

$$C \quad 9y - 6x = 9$$

$$y = \frac{2}{3}x + 1$$

$$E \quad 8y = 12 - 6x$$

$$y = -\frac{3}{4}x + \frac{3}{2}$$

$$B \quad 4x - 3y = 12$$

$$\begin{array}{r} 4x - 3y = 12 \\ -4x \quad \quad -4x \\ \hline \end{array}$$

$$\begin{array}{r} -3y = 4x + 12 \\ \hline \end{array}$$

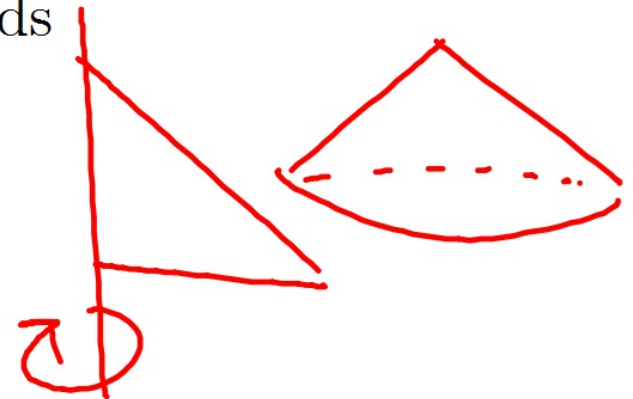
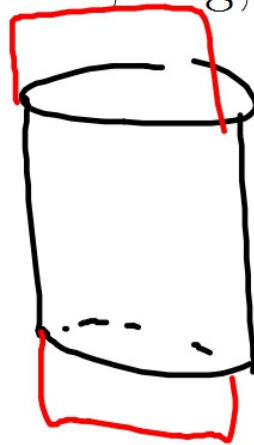
$$y = \frac{4}{3}x - 4$$

$$D \quad 4x = 6y - 12$$

$$y = \frac{2}{3}x + 2$$

## Q4 preview

- more with circles, chords, secants, tangents
- circles on the coordinate plane
- solids by cross-section and solids by revolution
- EOC review: congruence, transformations, triangles, similarity, coordinate plane, trig, 3D solids
- Algebra II prep
- fun enrichment math!



## Some deets on the EOC:

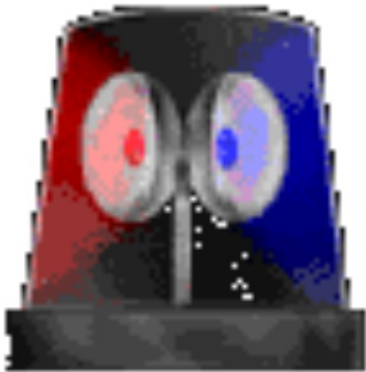
- Online
- April 27:
  - 35 mins: no calculator,  $\approx 16$  q's
  - 55 mins: calculator,  $\approx 22$  q's
- April 28:
  - 55 mins: calculator,  $\approx 15$  q's + 2 "tasks"

Multiple choice  
Multiple select  
Constructed Response  
Drag and drop

**EOC WILL BE 10% of Y1 AVERAGE!!!!**

$$Y1 = (0.45)S1 + (0.45)S2 + (0.10)E2$$

Y1 must be 67 or higher to pass course



$$S2 = (0.50)Q3 + (0.50)Q4$$

# Quadratic Equations

(NOTES)

Find all real solutions:

$$x^2 - 81 = 0$$

$$\begin{aligned} x^2 - 81 &= 0 \\ x^2 &= \sqrt{81} \\ x &= \pm 9 \end{aligned}$$

$$ax^2 + bx + c = 0$$

$$\begin{aligned} x^2 - 81 &= 0 \\ (x - 9)(x + 9) &= 0 \\ x - 9 &= 0 & x + 9 &= 0 \\ x &= 9 & x &= -9 \end{aligned}$$

Find all real solutions

$$x^2 - 6x - 16 = 0$$

$$(x - 8)(x + 2) = 0$$

$$x - 8 = 0 \quad x + 2 = 0$$

$$x = 8 \quad x = -2$$

① Ask what 2 #'s multiply to give  $-16$ ?

4	-4	-16
2	-8	-16
-2	8	-16

② which pair adds to give  $-6$ ?



complete the square

$$x^2 - 4x - 10 = 0$$

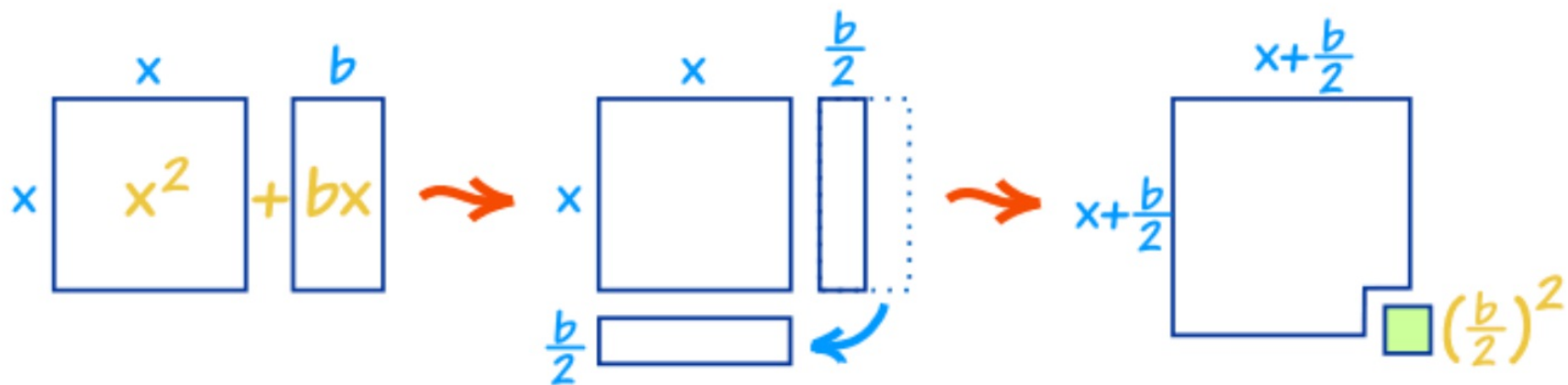
$$x^2 - 4x = 10$$

$$\left(-\frac{4}{2}\right)^2 = (-2)^2 = +4$$

$$x^2 - 4x + 4 = 10 + 4$$

$$(x-2)(x-2) = 14$$





Solve by completing the square:

$$x^2 - 8x + 13 = 0$$

Homework:

finish your project!!!! it was assigned a month ago!!!!

