

## Station # 1

Solve for the given variable.

$$① \quad x = x_0 + v_0 t + \frac{1}{2} a t^2 \quad v_0 = \underline{\hspace{2cm}}$$

$$② \quad \omega = F \Delta r \cos \theta \quad \theta = \underline{\hspace{2cm}}$$

$$③ \quad U_c = \frac{1}{2} C V^2 \quad V = \underline{\hspace{2cm}}$$

$$④ \quad V = IR \quad \text{and} \quad P = IV \quad P (\text{in term of } I \& R) = \underline{\hspace{2cm}}$$

$$⑤ \quad M = \sqrt{\frac{3RT}{M}} \quad M = \underline{\hspace{2cm}}$$

Station #2 : Solve the quadratic equation.

$$\textcircled{1} \quad 2x^2 + 10x + 4 = 1$$

$$\textcircled{2} \quad 5x^2 + 15x - 5 = -15$$

$$\textcircled{3} \quad x = x_0 + v_0 t + \frac{1}{2} a t^2$$

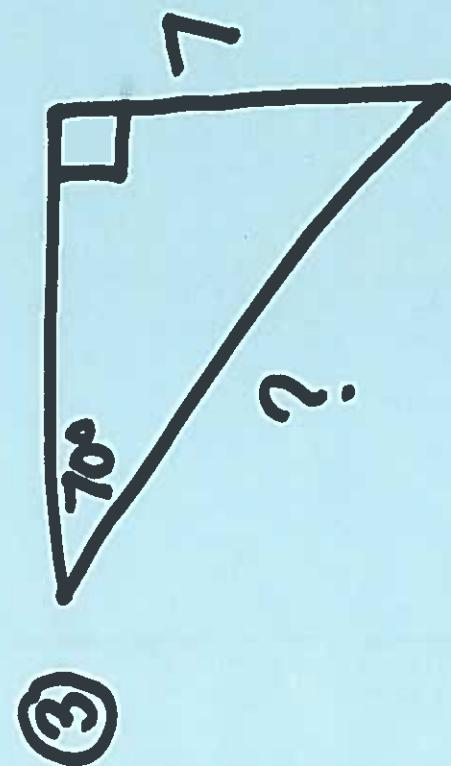
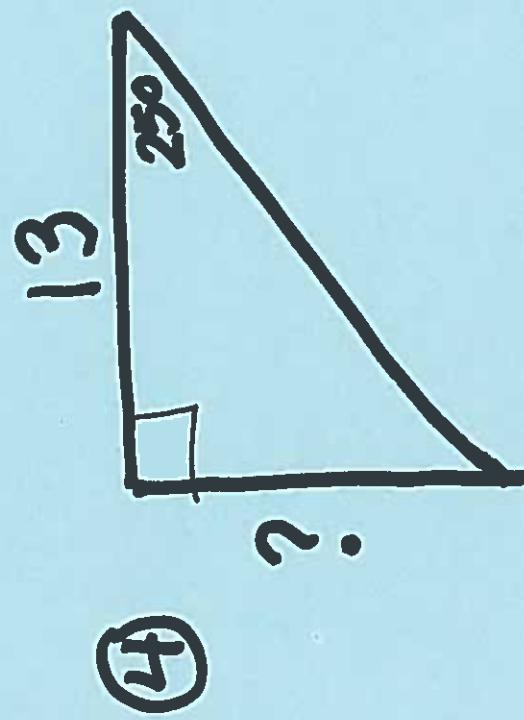
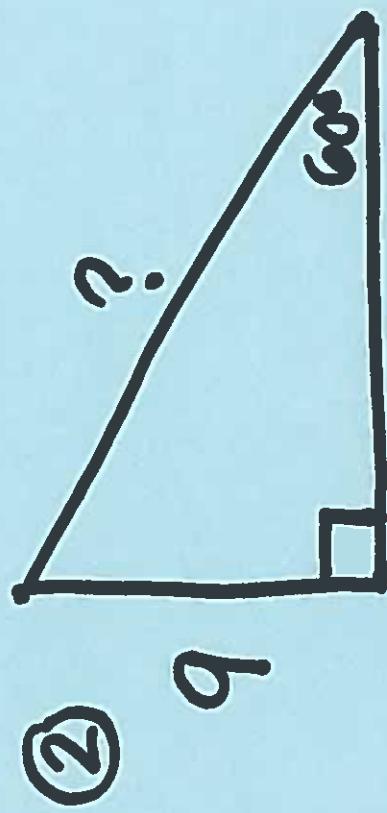
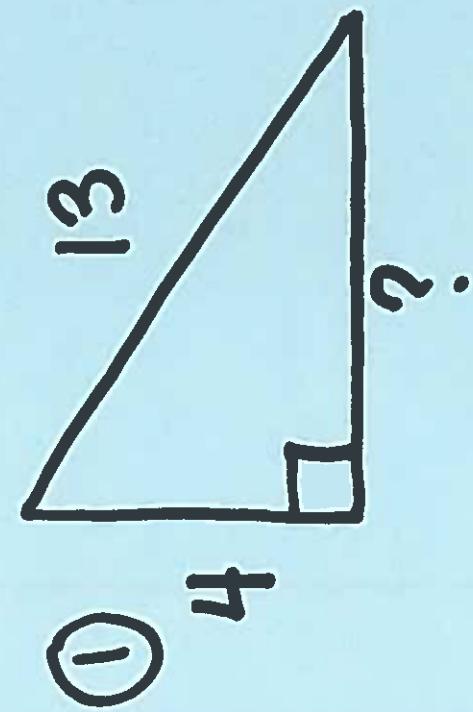
Station #3 : Find the solution that will satisfy the system of equations.

$$\begin{array}{l} \textcircled{1} \quad y = -3x + 4 \\ \quad y = 3x - 2 \end{array}$$

$$\begin{array}{l} \textcircled{2} \quad 8x - 6y = -20 \\ \quad -16x + 7y = 30 \end{array}$$

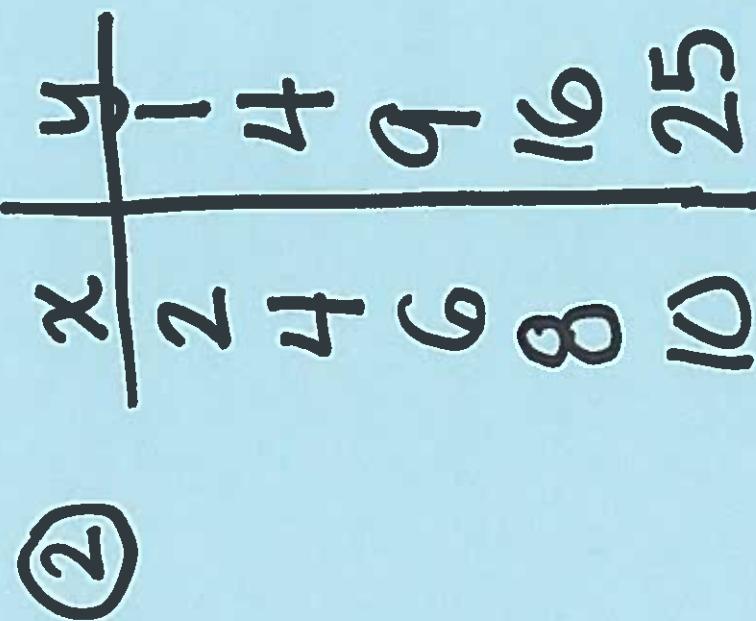
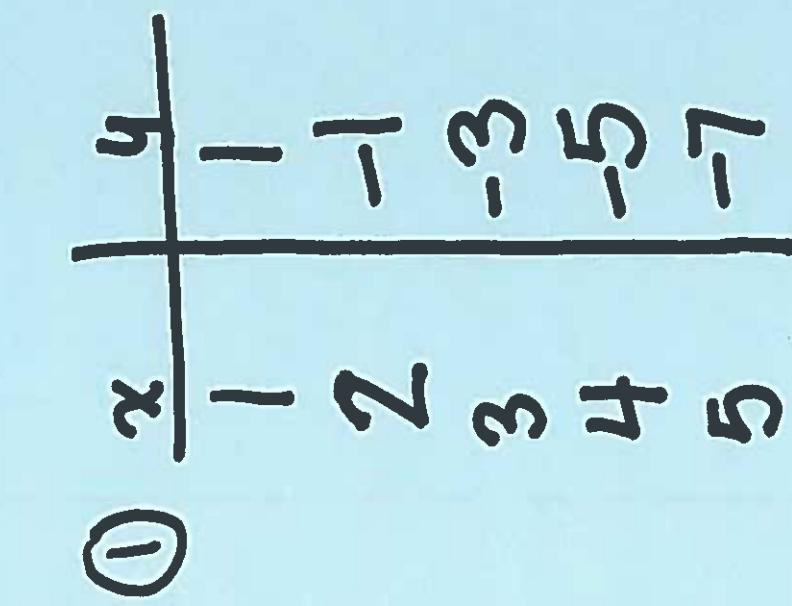
$$\begin{array}{l} \textcircled{3} \quad 4x + 2y = 10 \\ \quad x - y = 13 \end{array}$$

Station #4 : Find the missing side.



Station #5:

- (a) Graph the data.
- (b) Is there a relationship p between  $x$  &  $y$ ?  
what type?
- (c) Write an equation relating  $x$  &  $y$ .



## Station 6:

### Scientific Notation

- ①  $3.24 \times \underline{\quad} = 0.0000324$
- ②  $\underline{\quad} \times 10^5 = 3,700,000$
- ③  $4.82 \times 10^{-3} = \underline{\quad}$

### Unit conversion

Convert        to:

- ① 5165 cm
- ② 268 min

- (a) meters / seconds
- (b) millimeters / hours
- (c) kilometers / days
- (d) inches / years
- (e) feet
- (f) miles