

Problems of the Day

FOM 11

2019-20

Welcome to the problem of the day!

Instructions

- ✓ Create a section for PODs in your notebook
- ✓ Number each POD
- ✓ Show ALL your work – scratch work is good!
- ✓ Name your strategy
- ✓ Make up the ones you miss
- ✓ Have them checked at notebook check

Still not really a POD

Please make a trifold name plate for your desk

POD#1

Find the fraction and percentage of people in this room now that have a birthday in:

- a. January
- b. April
- c. August
- d. December

POD #2

Translate the following sentences into math (write an equation or inequality). Solve if possible.

- a. Add 5 to x and get 8.
- b. The difference of y and 3 is 3.
- c. Take a number, add 6, take away b , and you will have 10.
- d. A number c times itself equals the product of 7 and b .
- e. The quantity $x+6$ is added to 6 for a result of 20.

POD #3

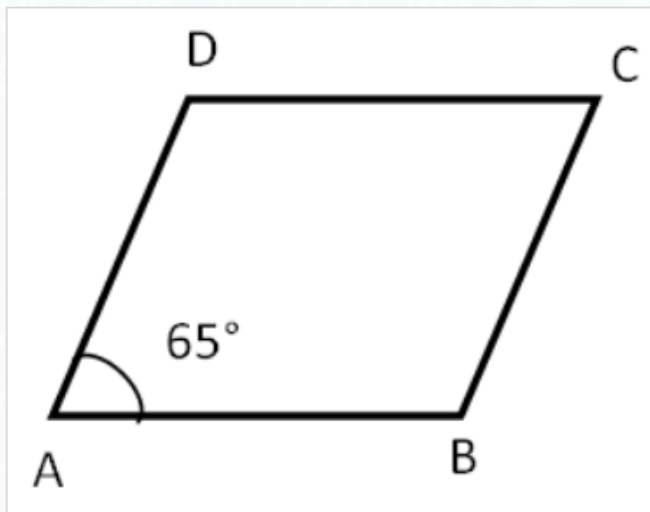
Sketch the following:

- a. A right triangle
- b. An acute triangle
- c. An obtuse triangle
- d. An equilateral triangle
- e. An isosceles triangle
- f. A scalene triangle

POD #4

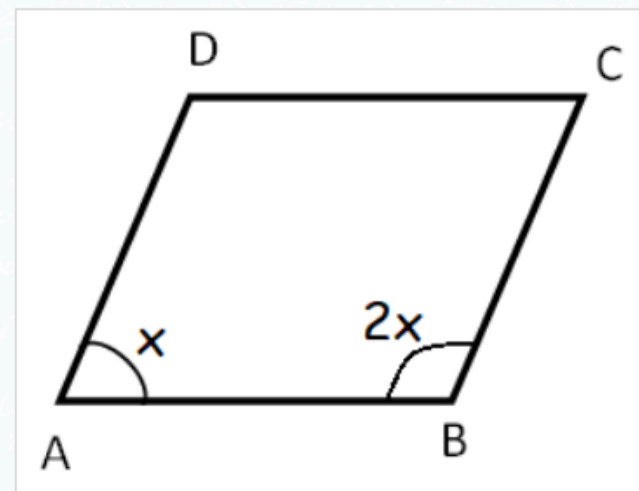
Problem 1 :

In the parallelogram given below, find $\angle B$, $\angle C$ and $\angle D$.



Problem 2 :

In the parallelogram ABCD given below, find $\angle A$, $\angle B$, $\angle C$ and $\angle D$.



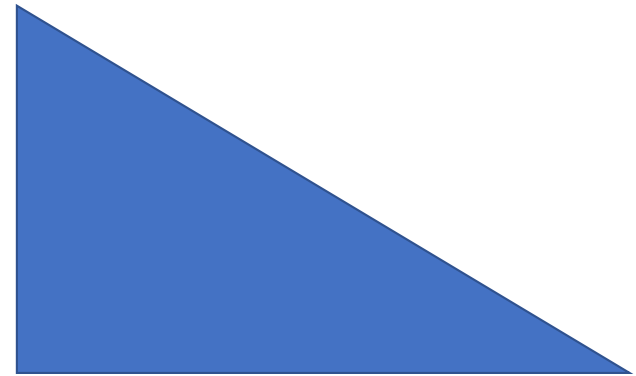
POD #5

Draw a triangle. Then use a protractor to measure the angles. What do they add up to?

POD #6

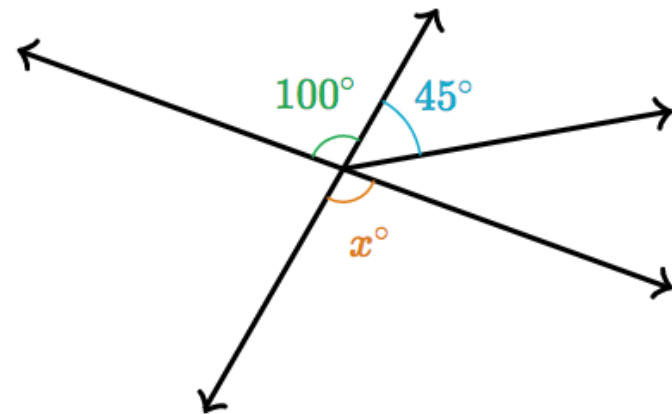
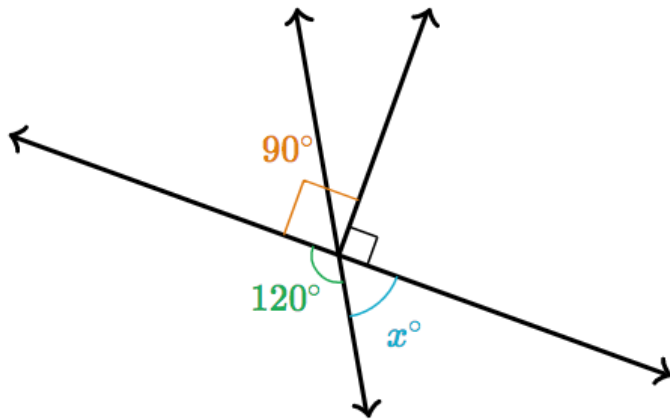
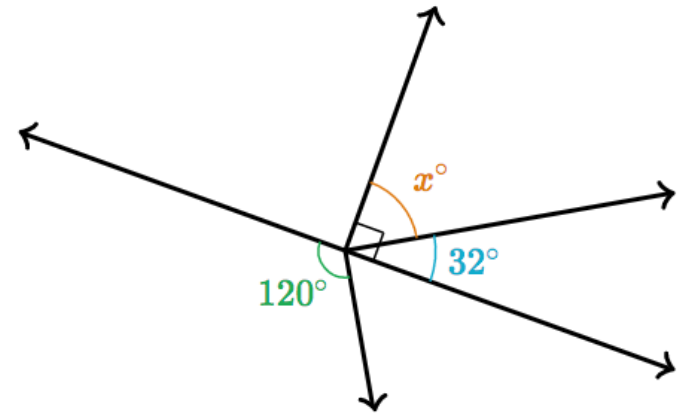
Estimate the angle measures of this right triangle by sight.

Then find the length of the hypotenuse if the two legs are 8 cm and 11 cm long. Round to the nearest tenth.



POD #7

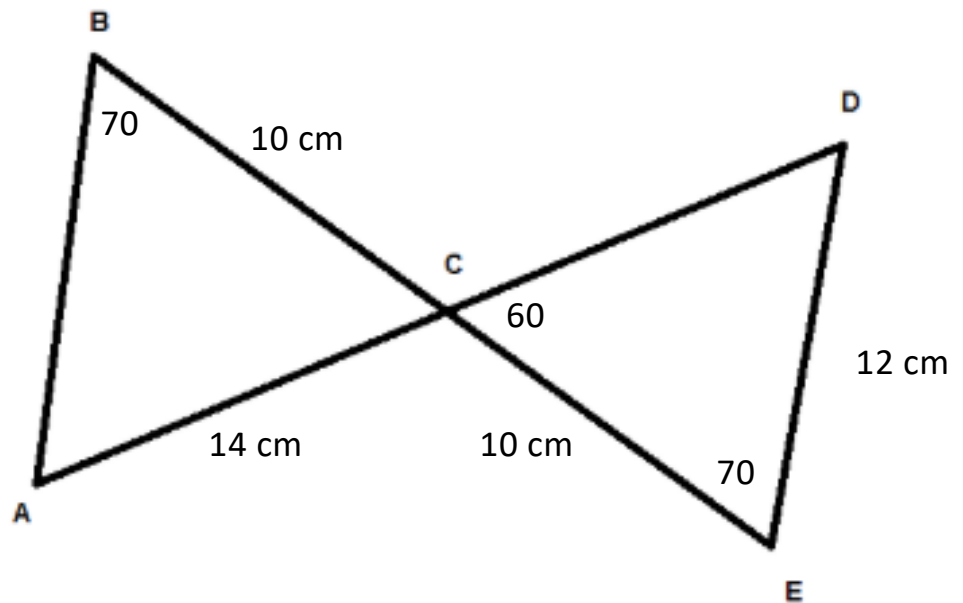
Find x . It's easier than you think; each problem has extraneous information!



POD #8

Find as many side lengths and angle measures as you can for the figure at right.

$AB =$	$\angle CAB =$
$BC = 10 \text{ cm}$	$\angle ABC =$
$AC = 14 \text{ cm}$	$\angle BCA =$
	$\angle BCD =$
$DE = 12 \text{ cm}$	$\angle DCE = 60$
$EC = 10 \text{ cm}$	$\angle CDE =$
$DC =$	$\angle DEC = 70$
	$\angle ECA =$



POD #9

Solve the following:

1. $X + 6 = -30$

2. $x - 10 = 14$

3. $6x = 24$

4. $x/5 = -2$

5. $X^2 + 5 = 54$

6. $4x + 10 = 5$

7. $x/3 - 4 = -2$

POD #10

Would you rather buy

18 eggs at this price



or 18 eggs at this price?



h/t @mathinthehome

www.dynamath.com