

Problems of the Day

Math 10

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

POD#1

Find the fraction and percentage of the class that has a birthday in

1. April
2. July
3. August
4. November

POD #2

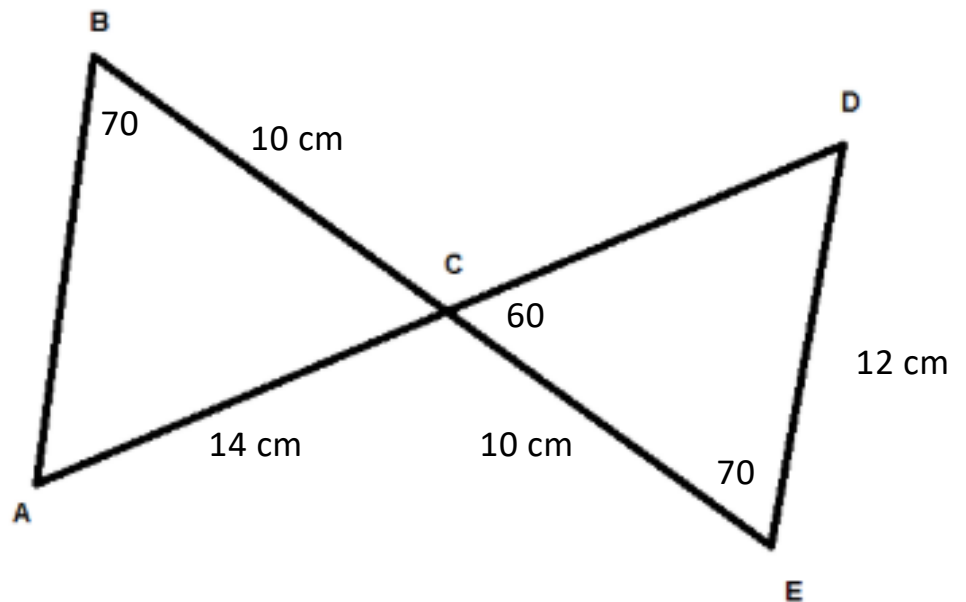
Find as many side lengths and angle measures as you can for the figure at right.

AB =
BC = 10 cm
AC = 14 cm

$\angle CAB =$
 $\angle ABC =$
 $\angle BCA =$
 $\angle BCD =$

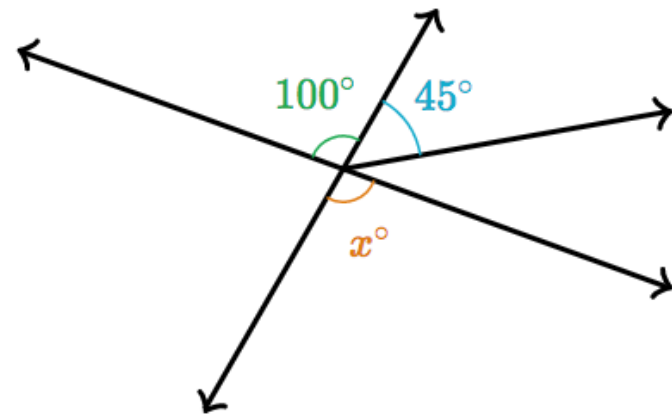
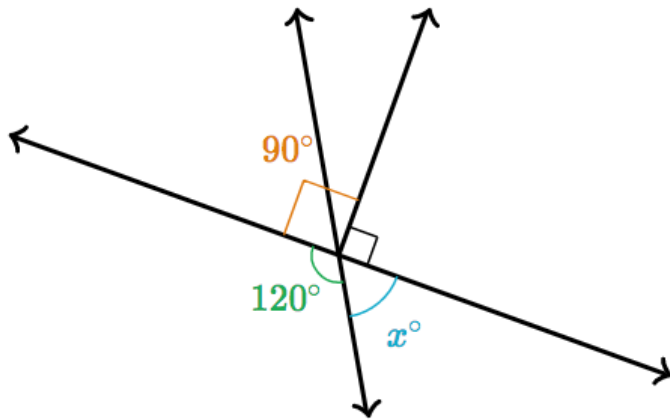
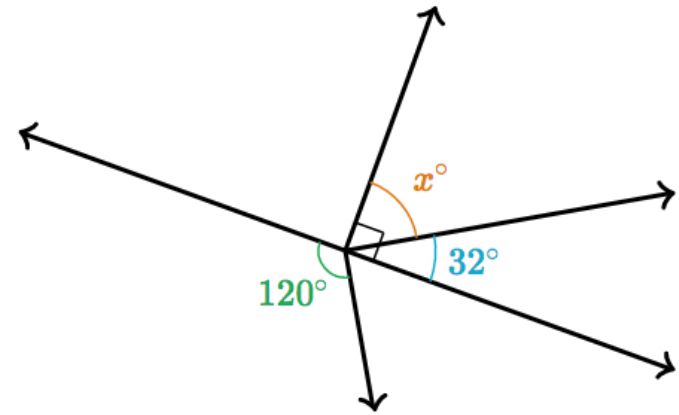
DE = 12 cm
EC = 10 cm
DC =

$\angle DCE = 60$
 $\angle CDE =$
 $\angle DEC = 70$
 $\angle ECA =$



POD #3

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



**IF YOUR CALCULATOR ISN'T IN
DEGREES**

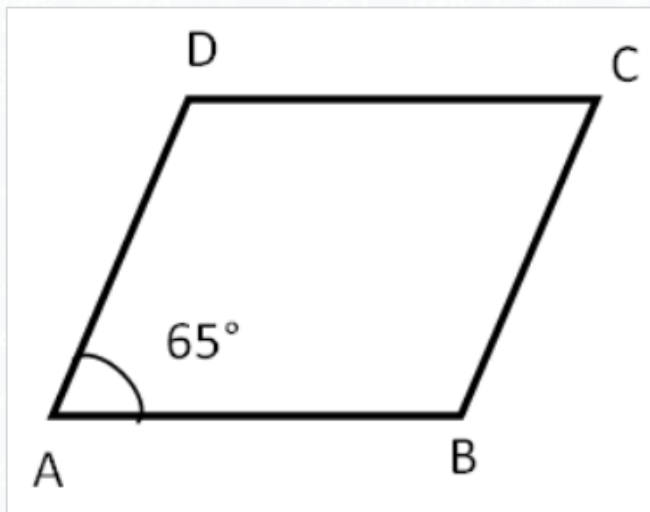
**YOU'RE GONNA HAVE A RAD
TIME!**

memegenerator.net

POD #4

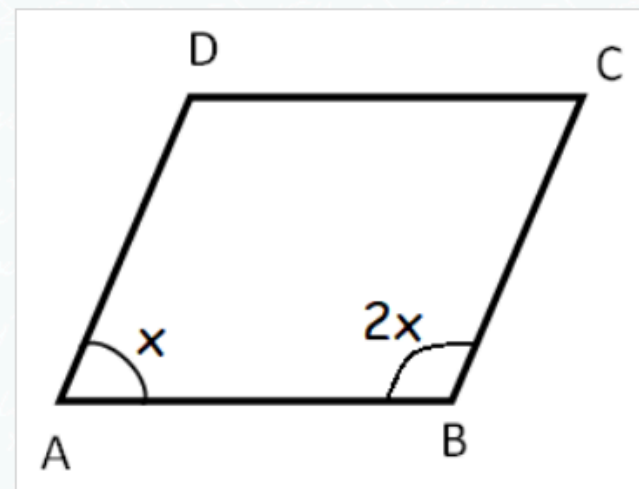
Problem 1 :

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



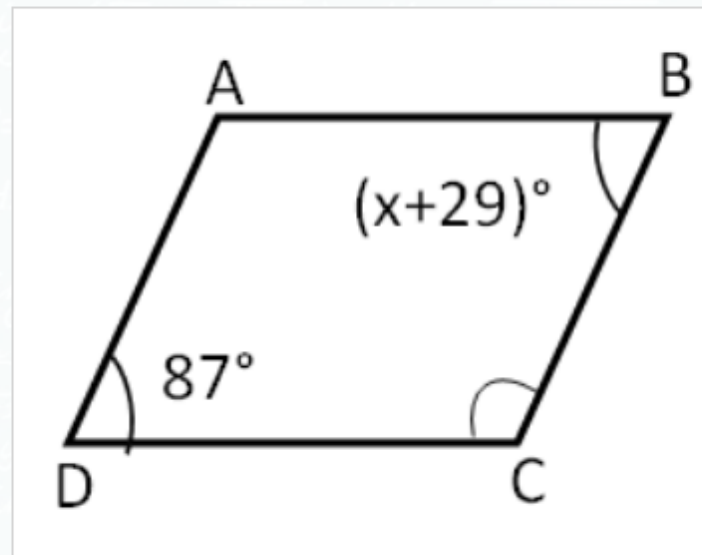
Problem 2 :

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



POD #5

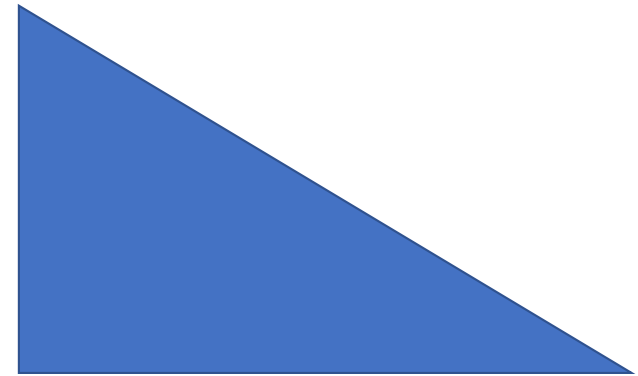
In the parallelogram given below, find the measures of $\angle A$ and $\angle C$.



POD #6

Estimate the angle measures of this right triangle by sight.

Then verify your answer using trigonometry if the two legs are 8 cm and 11 cm long. Round to the nearest degree.



POD #7

Sketch the following:

- a. an equilateral triangle. Label sides and angles with tick marks and arcs
- b. an isosceles triangle
- c. a scalene triangle
- d. a right triangle with a 30 degree angle. Label all the angle measures.
- e. an obtuse triangle

POD #8

Solve the following:

1. $X + 6 = -30$

2. $x/5 = -2$

3. $X^2 + 5 = 54$

4. $4x + 10 = 5$

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

6. $3(x + 2) = 24$

POD #9

Evaluate:

a. $3^2 + (1 - 2)$

b. $(9 - 4) - 8 + 1$

c. $8 + 4 * 3^3$

d. $\sqrt{144} + 10/(5-3)$

e. $\frac{(8+2)(14-4)}{10^2}$

POD #10

Solve the triangle

