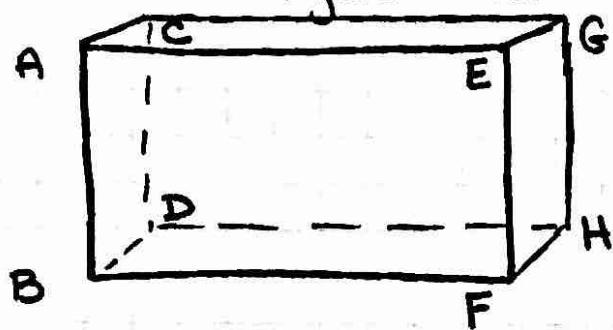


Name:

Math 132 Final

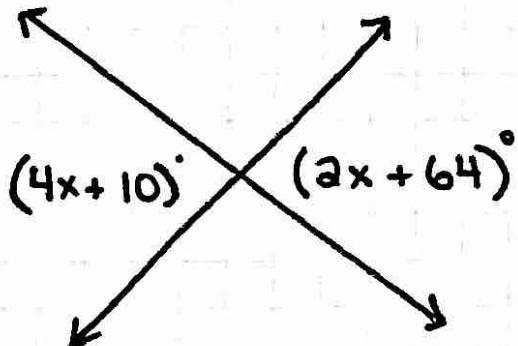
- ① In the figure below name all segments skew to \overline{AB} .



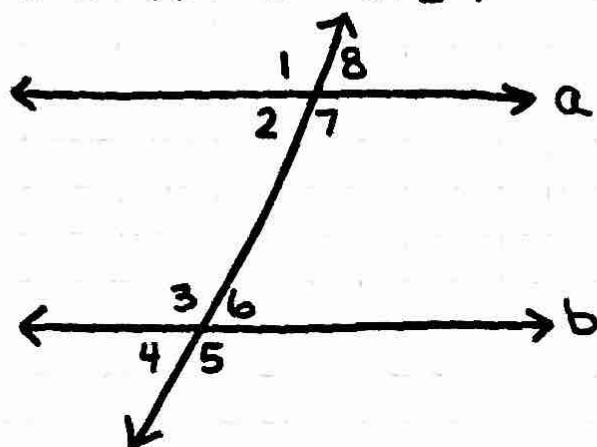
- ② What is the sum of the angles in a convex heptagon?

- ③ What is the measure of one exterior angle in a convex regular octagon?

- ④ Solve for x in the diagram shown below:



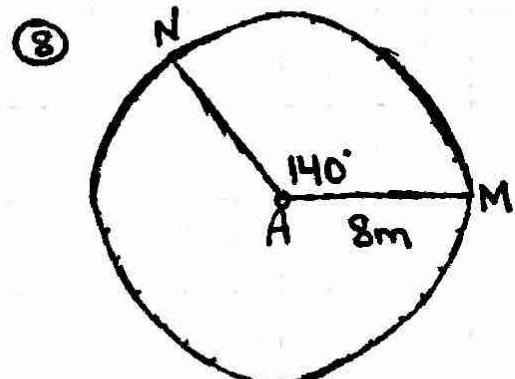
- ⑤ In the diagram shown what type of angles are $\angle 1$ & $\angle 5$?



all b

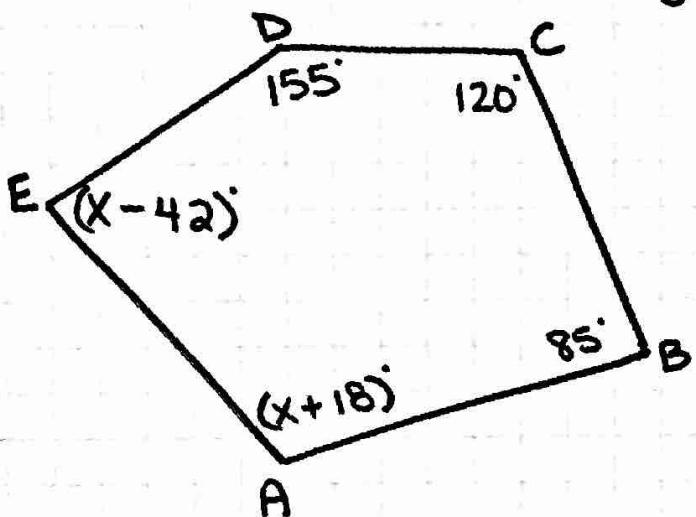
- ⑥ Using the diagram above $m\angle 2 = 54^\circ$ & $m\angle 3 = 2x + 18$. What is the value of "x"?

- ⑦ Convert $42^\circ 18' 30''$ into decimal form.



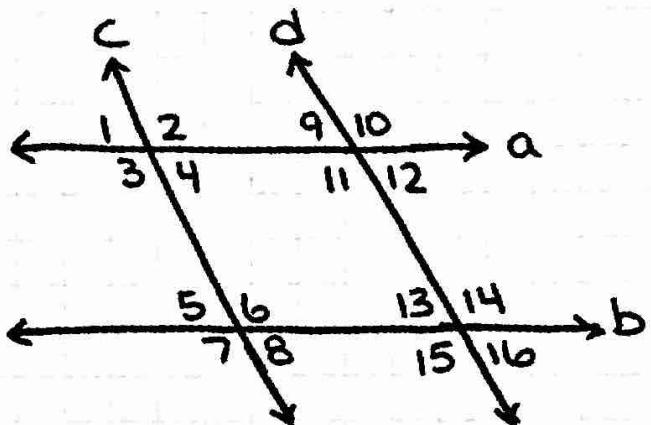
Given this is a circle with the center at A. Find the length of Arc MN.

⑨ Find $m\angle A$ in the figure below:

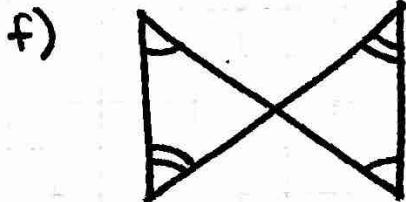
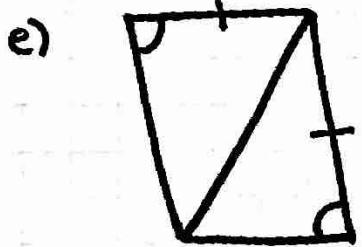
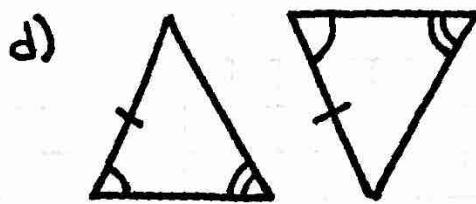
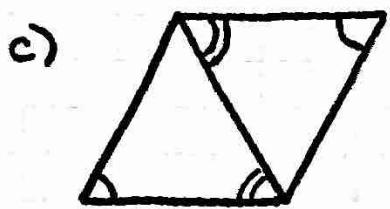
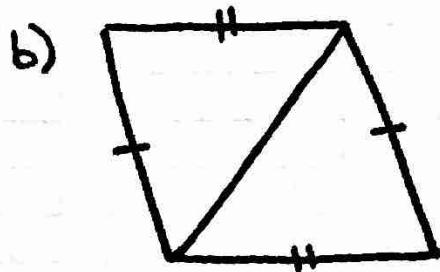
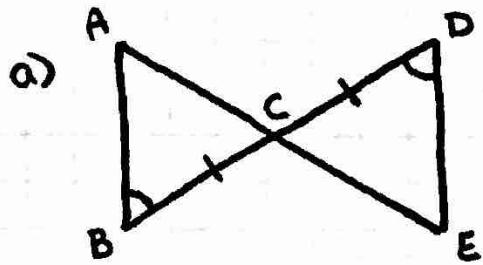


⑩ Given: $a \parallel b$
 $c \parallel d$

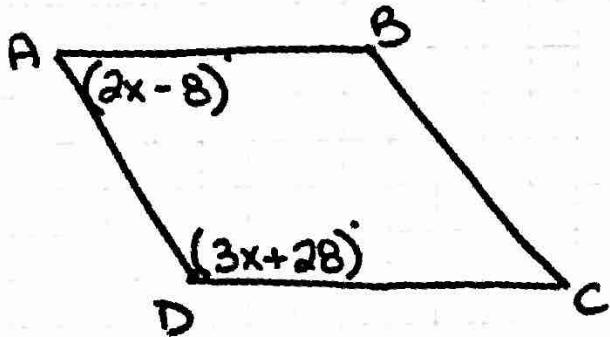
Prove: $\angle 2 \cong \angle 15$



11) State why each pair of triangles are congruent.
If not congruent say "NOT CONGRUENT"

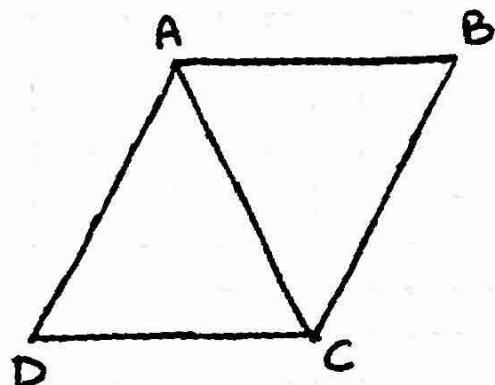


12) Given ABCD is a parallelogram find $m\angle A$.



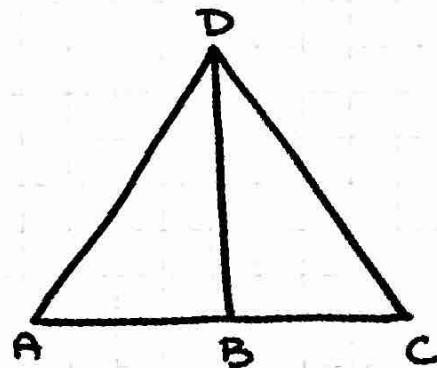
(13) Given: $\overline{AB} \parallel \overline{CD}$
 $\angle D \cong \angle B$

Prove: $\overline{AD} \cong \overline{CB}$



(14) Given: B is the midpoint
of \overline{AC}
 $\overline{AD} \cong \overline{CD}$

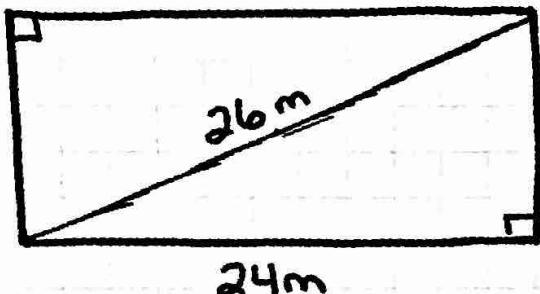
Prove: $\angle ABD \cong \angle CBD$



(15) For each statement say TRUE or FALSE

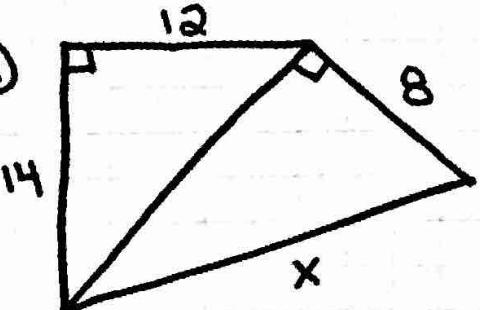
- a) All rectangles are squares _____
- b) The diagonals of a Kite are perpendicular _____
- c) All four sides of a rhombus are congruent _____
- d) Opposite sides of a kite are congruent _____
- e) Trapezoids only have one pair of parallel sides _____
- f) Diagonals of a rectangle bisect each other _____
- g) Diagonals of a parallelogram bisect the angles _____
- h) Consecutive angles of a square are supplementary _____
- i) Diagonals of a rhombus are congruent _____
- j) All sides of an isosceles trapezoid are congruent _____
- k) Linear angles are supplementary _____
- l) Perpendicular lines do NOT intersect _____

⑯ What is the perimeter of the rectangle shown?



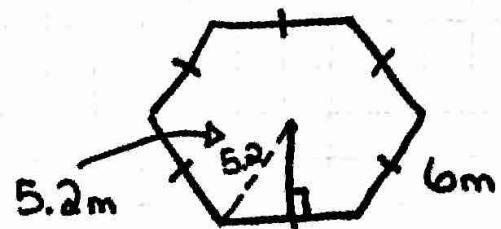
⑰ What type of triangle do the sides 8m, 10m, 15m make? (Explain)

⑯

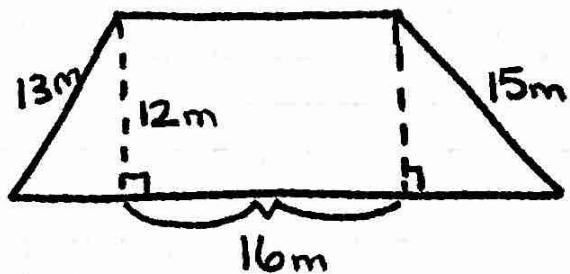


Solve for x: (Round to one decimal)

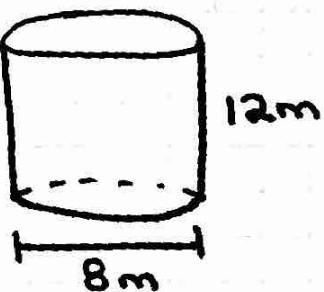
⑲ Find area of the figure below



②₀ Find the area of the figure below:

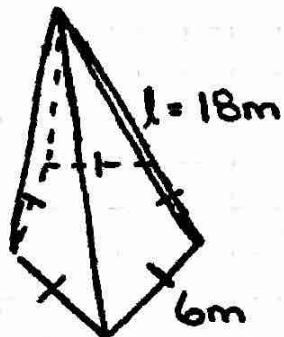


㉑ Find Volume of:



㉒ Find Surface Area of:

$$\text{apothem} = 4\text{m}$$
$$\text{height} = 14\text{m}$$



③ What is the distance between $A(2, -1, 5)$ and $B(-3, 4, 0)$?

④ If you reflect point $A(-3, 8)$ over the y -axis and then translate the new point right 5 and down 4 what are the coordinates of the final point?

⑤ If you reflect point $B(-1, -5)$ over the line $y = x$ and then dilate the new point using a scale factor of 3 what are the coordinates of the final point?