

Name _____

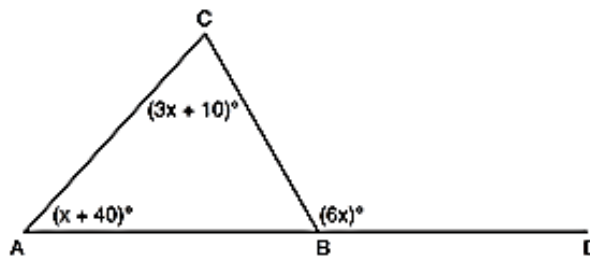
DUE DATE: Quiz on 2/6 and 2/7

GEOMRCC Regents Review 4

Directions ✨ There will be a 2 question quiz on these questions on the last day of class in each week. Dates are posted above!!! PRACTICE THESE and CHECK YOUR ANSWERS! You ✨ have exactly 10 minutes to complete the quiz.

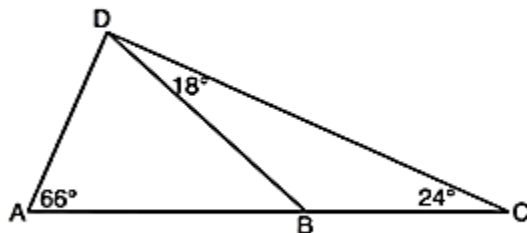
- 1) What is the equation of the perpendicular bisector of the segment joining points A (2, -2) and B (6, 4)?

- 2) In the diagram of $\triangle ABC$ below, \overline{AB} is extended to point D .



If $m\angle CAB = x + 40$, $m\angle ACB = 3x + 10$, $m\angle CBD = 6x$, what is $m\angle CAB$?

- 3) As shown in the diagram of $\triangle ACD$ below, B is a point on \overline{AC} and \overline{DB} is drawn.

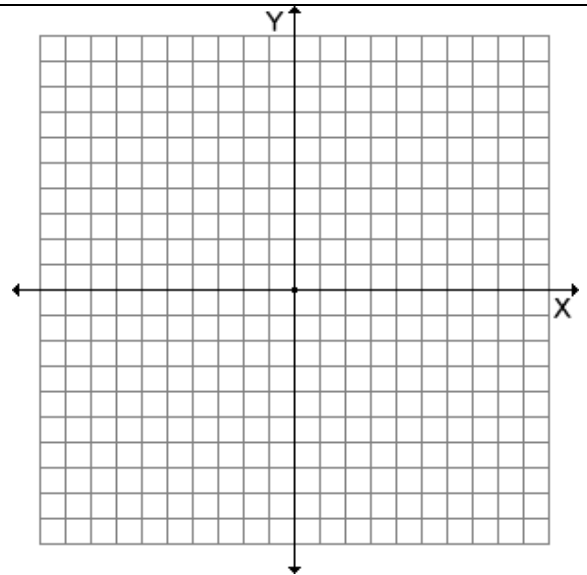


If $m\angle A = 66$, $m\angle CDB = 18$, and $m\angle C = 24$, what is the longest side of $\triangle ABD$?

#4 and #5 on next page!!!!

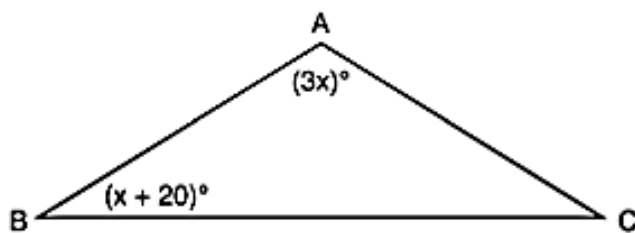
4)

What are the coordinates of point A' , the image of point $A(-4, 1)$ after the composite transformation $R_{90^\circ} \circ r_{y=x}$ where the origin is the center of rotation?



5)

In the diagram below of $\triangle ABC$, $\overline{AB} \cong \overline{AC}$, $m\angle A = 3x$, and $m\angle B = x + 20$.



What is the value of x ?

Answers: 1) $y - 1 = \frac{-2}{3}(x - 4)$ 2) 65 3) \overline{AB} 4) (4, 1) 5) $x=28$

