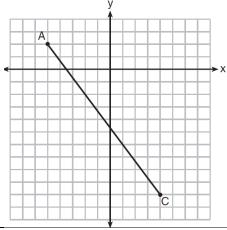
GEOMRCC Regents Review 9

Directions The Regents reviews will no longer be handed in. There will be a 2 question quiz on these questions on the last day of class in each week. You will have exactly 10 minutes to complete the quiz.

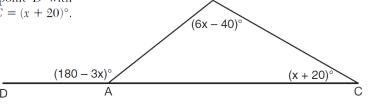
1) In the diagram below, AC has endpoints with coordinates A(-5,2) and C(4,-10).

If B is a point on \overline{AC} and AB:BC = 1:2, what are the coordinates of B?



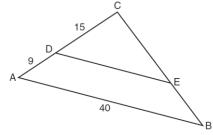
- 2) An ice cream waffle cone can be modeled by a right circular cone with a base diameter of 6.6 centimeters and a volume of 54.45 π cubic centimeters. What is the number of centimeters in the height of the waffle cone?
- In $\triangle ABC$ shown below, side \overline{AC} is extended to point D with $m\angle DAB = (180 3x)^{\circ}$, $m\angle B = (6x 40)^{\circ}$, and $m\angle C = (x + 20)^{\circ}$.

Solve for x.



4) In the diagram of $\triangle ABC$ below, \overline{DE} is parallel to \overline{AB} , CD=15, AD=9, and AB=40.

Find DE.



- 5) In right $\triangle ABC$, $m \angle C = 90^{\circ}$, $\sin A = x + 0.1$ and $\cos B = 2x 0.4$.
- a) Find x. b) Find value to nearest degree for angle A.

- Answers: 1) (-2, -2)
- 2) 15 cm
- 3) 20
- 4) 25
- 5) a) 0.5 b) 37°