Geometry FIND THE BINGO—Angles A Puzzle by David Pleacher

DIRECTIONS:
Work any problem below and locate your answer on your bingo card. Circle the answer.

Keep working problems in any order until you have five circled answers in a line -- horizontally, vertically, or diagonally.
WHEN YOU FIND THE BINGO, YOUR WORK IS FINISHED!

Your BINGO Card

88°	(x + 90)°	(180 – x)°	125°	20°
(140 + 2x)°	160°	24°	70°	(90 – x)°
145°	30°	110°	56°	25°
12°	(150 – 5x)°	35°	45°	(140 – 2x)°
90°	60°	92°	180°	80°

1. Determine the supplement of 55°.
2. If two angles are both congruent and complementary, then each has a measure of ____ .
3. Determine the supplement of an angle whose measure is 40 – 2x degrees.
4. In diagram 1, if $m\angle AEC = 124°$, determine $m\angle DEC$.
5. The measure of a right angle is ____ .

6. In diagram 1, if $m\angle AEB = 70°$ and $m\angle DEC = 30°$, determine $m\angle BEC$.
7. In diagram 2, if $m\angle 2 = 88°$, determine $m\angle 4$.
8. Determine the complement of 20°.
9. In diagram 1, $m\angle BED = 120°$. Determine $m\angle AEB$.
10. In diagram 2, $m\angle 2 = (5x + 10)°$ and $m\angle 3 = (x + 50)°$. Determine the value of x.

11. In diagram 2, $m\angle 1 = (3x - 40)°$ and $m\angle 3 = (x + 10)°$. Determine the value of x.
12. In diagram 1, $m\angle AEB = 4x°$, $m\angle CEB = 9x°$, and $m\angle CED = 2x°$. Determine $m\angle CED$.
13. Determine the complement of x°.
14. Determine the supplement of (5x + 30) °.
15. If the measure of an angle is eight times the measure of its supplement, determine the measure of the angle.

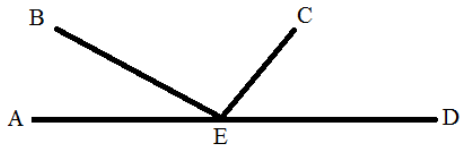

Diagram 1

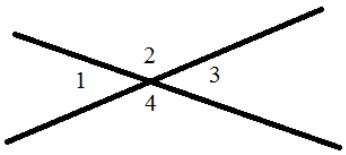

Diagram 2