

MASSACHUSETTS MATHEMATICS LEAGUE
NOVEMBER 2003
ROUND 6: GEOMETRY ANGLES

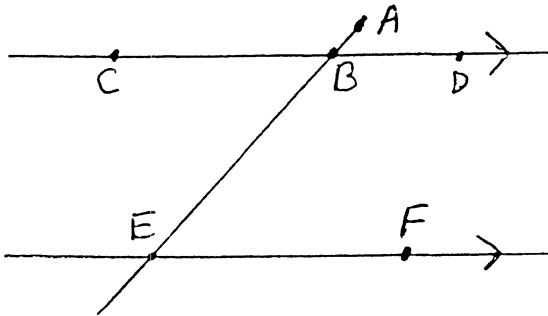
ANSWERS

A) _____

B) _____

C) _____

- A) Given two parallel lines cut by a transversal. If $\angle ABC = 6x + 6y - 36$, $\angle CBE = 4x$, and $\angle BEF = 3y$; calculate the degree measure of $\angle DBE$.



- B) What is the smaller angle formed by the hands of a clock at 4:36?

- C) Given two parallel lines. If $\angle ABC = 3x - 5$, $\angle BCD = 110^\circ$, $\angle CDE = 90^\circ$, and $\angle DEF = x + 5$; calculate the value of x .

