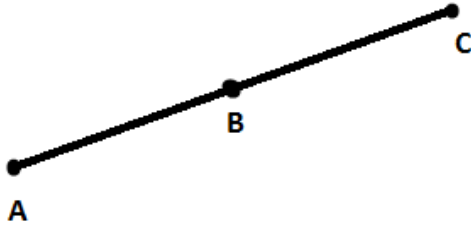


Name: _____
Date: _____
Class: _____

Geometry
Unit 1
HW 1-2

1)

B is the midpoint of \overline{AC}

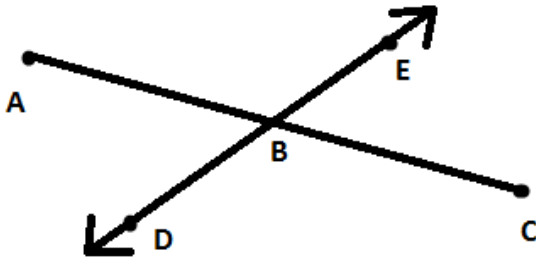


a) If $AB = 2x + 2$ and $BC = 4x - 8$ find AC

b) If $BC = 4x + 2$ and $AC = 9x - 7$ find and explain AB

2)

\overline{DE} bisects \overline{AC}



a) $AB = 9x - 1$ and $BC = 8x + 2$, Find AC

b) $BC = 2x - 1$ and $AC = 3x + 14$, Find AB

c) $m\angle ABE = 10x + 33$ and $m\angle DBC = 12x + 14$ find $m\angle ABD$

3) Find the slope between each pair of points (a grid is at the end in case you need it).

a) (2, 4) and (-3, 7) b) (-8, -10) and (-4, -3) c) (6, -2) and (8, -8)



If $AB = 2x - 1$, $BC = 4x$, $AC = 7x - 4$, and $AD = 8x - 1$, find CD

5) \overleftrightarrow{DQ} passes through $(2, 4)$ and $(-3, -1)$ while \overleftrightarrow{YT} passes through $(3, 6)$ and $(6, 9)$. Explain the relationship between these two lines.

