Geometry

Name_____ ID: 1

WS 3.5A Point of Division

Date_____ Period_____

Find the coordinates of the point that is 2/3 of the distance from point A to point B.
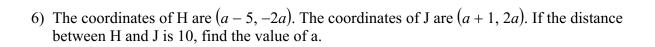
1) A $(1, 3)$ B $(-2, -5)$

2) A $(-2, -6)$ B $(-8, 6)$

Find the coordinates of the point that is 3/5 of the distance from point A to point B.

3) A $(4, 0)$ B $(5, 5)$

4) A $(8, -4)$ B $(-2, -5)$

5) C has coordinates $(a, 3a)$ and D has coordiantes $(-5a, 0)$. Find the coordinates of the midpoint of CD.

6) The coordinates of H are $(a - 5, -2a)$. The coordinates of J are $(a + 1, 2a)$. If the distance between H and J is 10, find the value of a.

7) Given the points A $(-6, -1)$, B $(8, -4)$, and C $(6, 2)$. Find the distance from C to the midpoint of $(AB)^-$ to the nearest tenth.