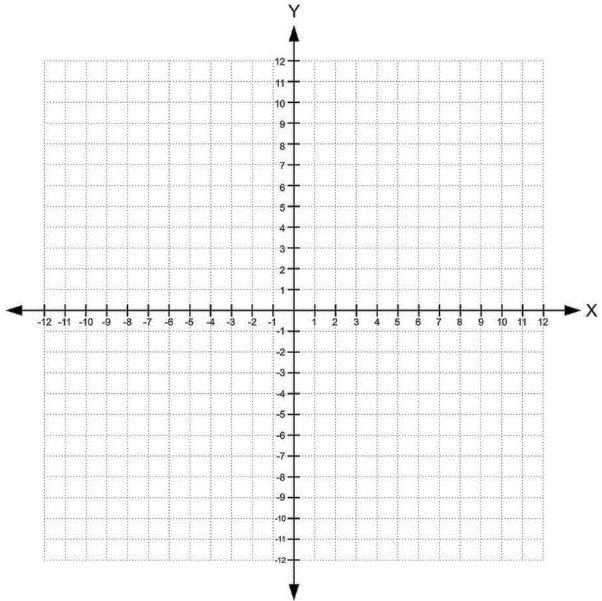
***MPM1D – Finding Points***

A grid is provided to help you answer the questions below. Looking for a challenge? Try to answer them without use of the grid. INTEGER COORDINATES ONLY PLEASE!!



1. A line passes through the points (2,3) and (11,10). Find another point on the line
   1. In quadrant 1
   2. In quadrant 3
2. A line passes through the points (–7,11) and   
   (–3,3). Find another point on the line
   1. In quadrant 4
   2. In quadrant 3
3. Line segment A connects (2, –3) to (–2, 7). Line segment B passes through (–3, –9) and is parallel to segment A
   1. If segment B is the same length as segment A, what is segment B’s other endpoint?
   2. If segment B is shorter than as segment A, what is segment B’s other endpoint?
   3. If segment B is longer than segment A, what could segment B’s other endpoint be?
4. Line A passes through (–2, –4) and (4, –1). Line B is parallel to Line A, and passes through (–6,1).
   1. Find another point on Line B
   2. Line B passes through the point (2, *y*). What is the value of *y*?
   3. Line B passes through (*x*, -1). What is the value of *x*?
5. Line A passes through (–4, –3) and (–2, 3). Line B passes through (–1, 5) and is perpendicular to Line A. Find another point on Line B
   1. In quadrant 1 b. In quadrant 2 c. In quadrant 4
6. Line A passes through (4, 5) and (8, –1). Line B also passes through (4, 5), but it is perpendicular to Line A. Find a point on Line B that is in quadrant 2.

ANSWERS (I think!). Note – other correct answers are possible.

1. a) (12, 7) b) (–3, 1) c) (–8, –1) 2. a) (1, –5) b) (–1, –1) 3. a) (–7, 1) b) (–5, –4) c) (–9, 6)

4. a) (–4, 2) or (–2, 3) or (0 ,4) b) (2, 5) c) (–10, –1) 5. a) (2, 4) b) (–4, 6) c) (17, –1) 6. (–2, 1)