**Geometry (G.GPE.B.5)** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
**Unit One B – Coordinate Geometry Practice #2** (HW35)Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_

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| 1. Write the equation of a line through (-3, -4) and (1, -8). |
| 2. Write the equation of a line perpendicular to y = $\frac{1}{3}$x – 5 through the point (-6, 1). |
| 3. Is the triangle with vertices at A(-2, 3), B(2, 0), C(-1, -4) a right triangle? How do you know? (Think about how slope and/or distance could help you.)   |
| 4. Given the parallelogram drawn below, mark all of the information that is true based on the properties we learned about in class. |
| 5. Given points A, B, and C in the coordinate plane as shown, find the fourth point in order to meet the criteria described in each situation:BCA1. Find point D so that **ABCD** is a parallelogram
2. Find point E so that **ABEC** is a parallelogram
3. Find point F so that **AFBC** is a parallelogram
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| 6. Given: Parallelogram ABCD, $m∠DAE=33°$, $m∠DBC=94°$, $m∠DCE=24°$.a. m$∠$BAE = \_\_\_\_\_\_\_\_\_\_ b. m$∠$ABE = \_\_\_\_\_\_\_\_\_\_BA CEc. m$∠$BEC = \_\_\_\_\_\_\_\_\_\_ d. m$∠$CED = \_\_\_\_\_\_\_\_\_\_D |
| 7. Solve: x2 = 7x - 10 |
| 8. Determine the distance of and the midpoint of the following segments. a) A (-4,6) B (2,-3) b) A (2,-1) B (-12,4) |