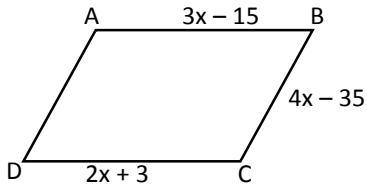
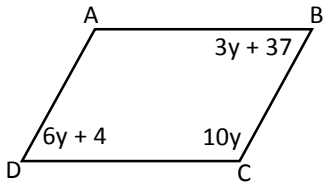


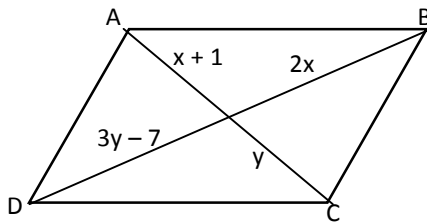
1. ABCD is a parallelogram. Find AD.



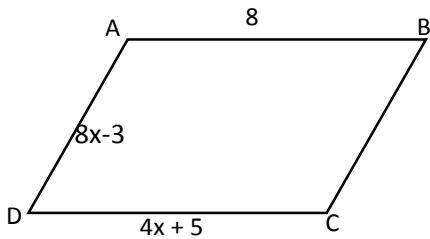
2. ABCD is a parallelogram. Find $m\angle A$.



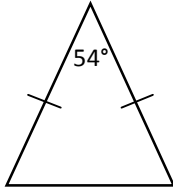
3. ABCD is a parallelogram. Find AC.



4. ABCD is a parallelogram. Find the perimeter.

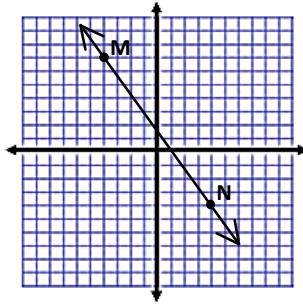


5. Solve for the missing angles in the triangle below.

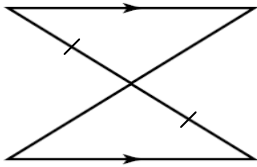


6. Which pair(s) of points define a line perpendicular to ?

- a. (0, 7) and (8, -4)
- b. (4, -7) and (-4, 4)
- c. (-7, 0) and (4, 8)
- d. (7, -4) and (-4, 4)



7. Are the triangles below congruent? Justify your answer by marking additional information you know on the diagram and giving a reason(shortcut).



8. Write the equation of a line parallel to $y - 3x = 4$ through the point (0, 5).

9. 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:

- a. Find point D so that **ABCD** is a parallelogram
- b. Find point E so that **ABEC** is a parallelogram
- c. Find point F so that **AFBC** is a parallelogram

