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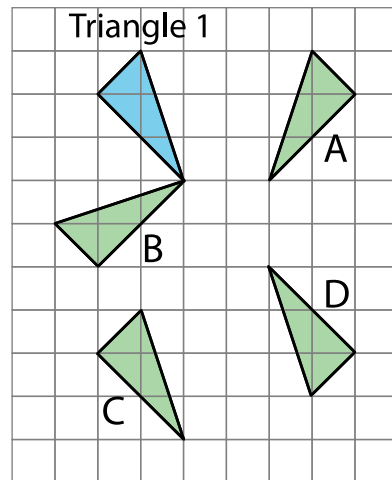
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Unit 1 Pre-Unit Diagnostic Assessment

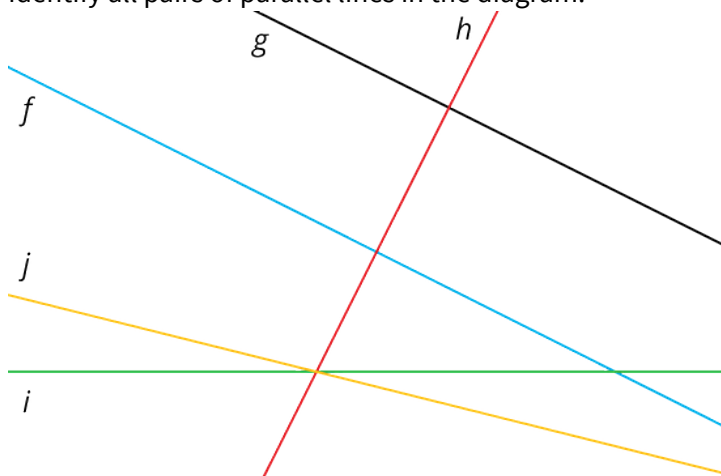
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You will need a ruler, protractor, and compass.

1. Select **all** the triangles that can be rotated to match up with Triangle 1.



2. a. Identify all pairs of parallel lines in the diagram.



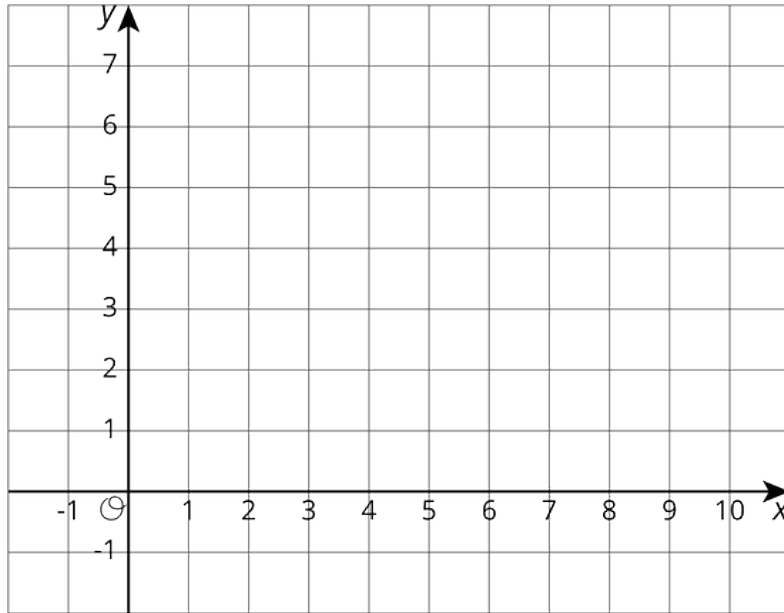
- b. Identify all pairs of perpendicular lines in the diagram.

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3. a. On the coordinate plane, plot and label these points: $A = (2, 1)$, $B = (5, 1)$, $C = (7, 2)$, $D = (4, 2)$.



b. What is the length of CD ?

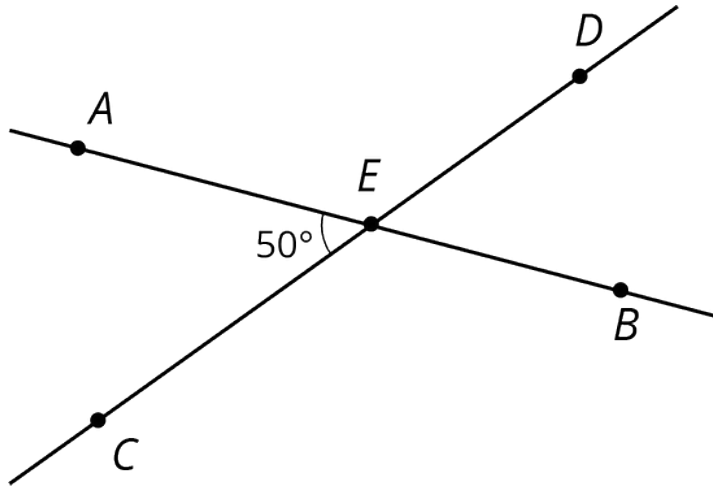
c. What kind of quadrilateral is $ABCD$?

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4. Lines AB and CD intersect at E .



a. What is the measure of angle AED ? Explain how you know.

b. What is the measure of angle DEB ? Explain how you know.

5. For each set of measurements, decide whether or not it is possible to draw a triangle with those measurements. If it is possible, draw the triangle.

a. Side lengths 2 cm, 3 cm, and 4 cm

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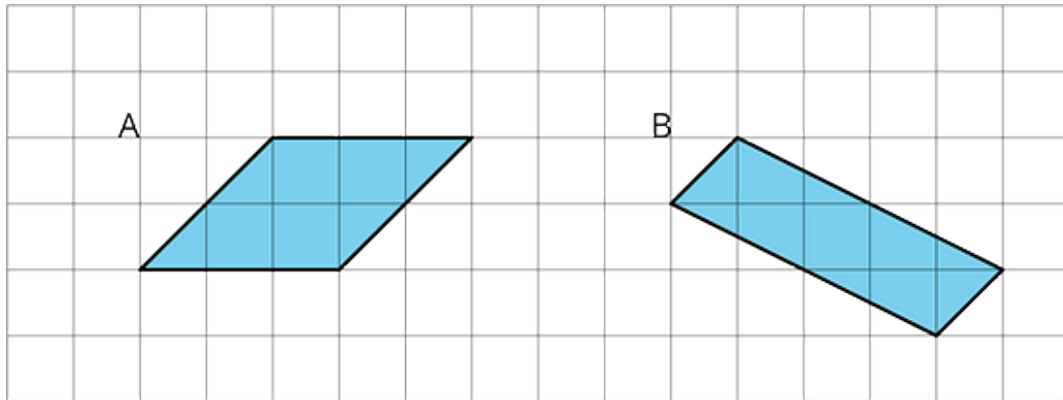
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b. Side lengths 2 cm, 3 cm, and 6 cm

c. Angles 90 degrees, 45 degrees, and 45 degrees

d. Angles 90 degrees , 60 degrees, and 60 degrees

6. Find the area of each parallelogram.

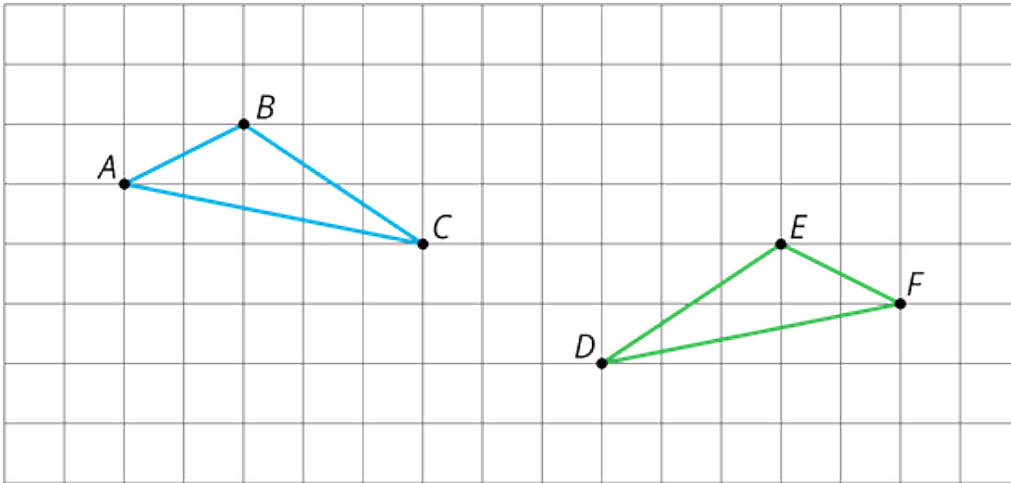


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7. Here are two triangles:



Describe a way to move triangle ABC so that it matches up perfectly with triangle FED .