

Name:

Class:

Grade 8, Unit 1: Practice Summative Assessment

Question 1

Amir made Figure A with four triangles. He then rearranged the four triangles to make Figure B.

Figure A

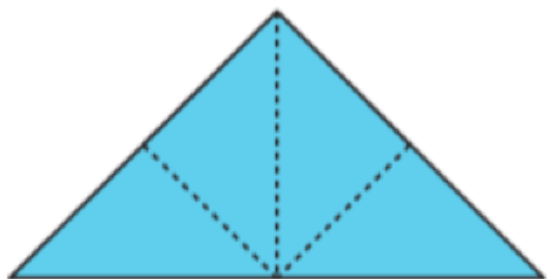


Figure B

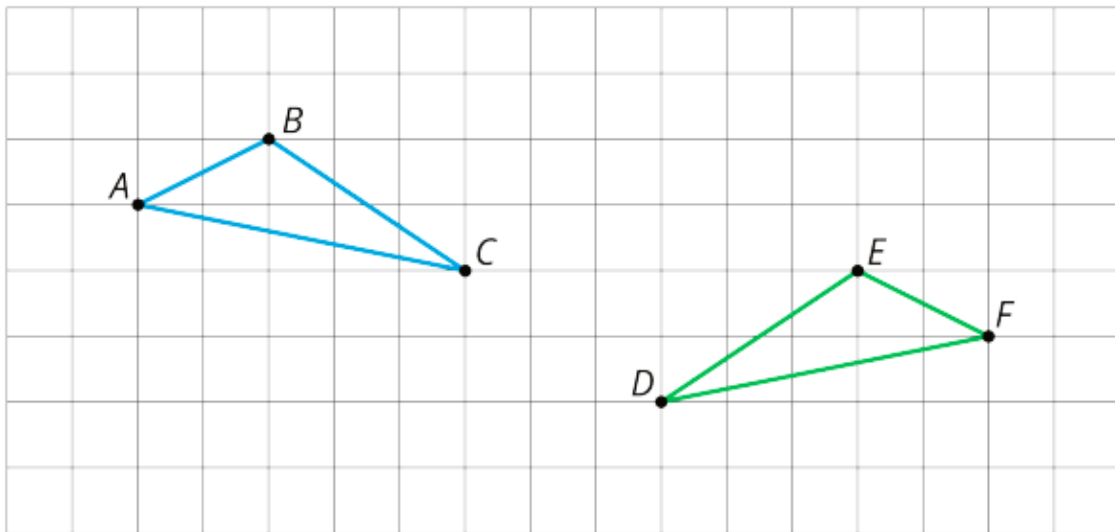


Select ***all*** the true statements.

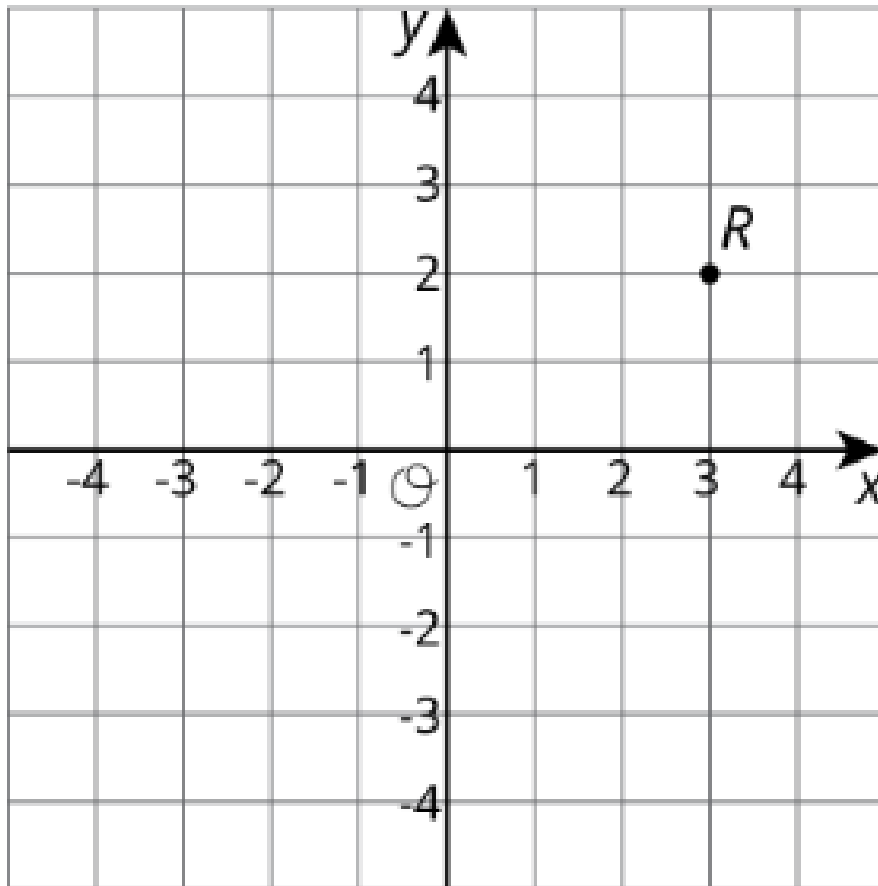
- (A) Figure A is congruent with Figure B.
- (B) Each triangle in Figure A is congruent with a triangle in Figure B.
- (C) Figure B is a translation of Figure A.
- (D) A triangle could never be congruent with any square because triangles and squares are different shapes.

Question 2

Describe a sequence of transformations that shows Triangle ABC is congruent to Triangle FED.



Question 3

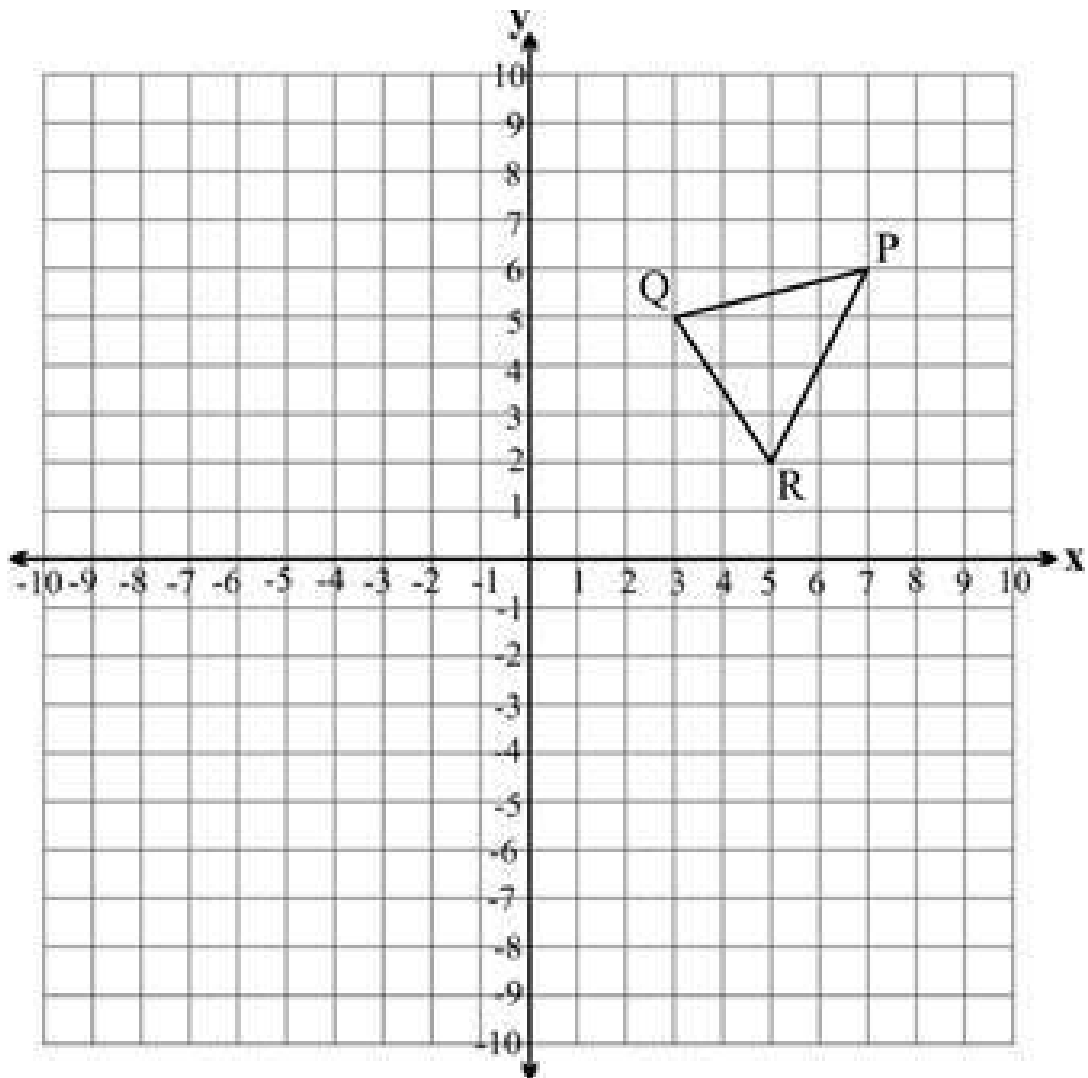


Part 1 Point R above is located at (3, 2). Write the location of Point S formed by a rotation of 90° counterclockwise around the origin (0, 0) (,)

Part 2 Point R above is located at (3, 2). Write the location of Point T formed by a translation one unit down then a reflection using the y-axis. (,)

Part 3 Point R above is located at (3, 2). Write the location of Point U formed by a reflection using the x-axis, then a translation two units to the left. (,)

Question 4



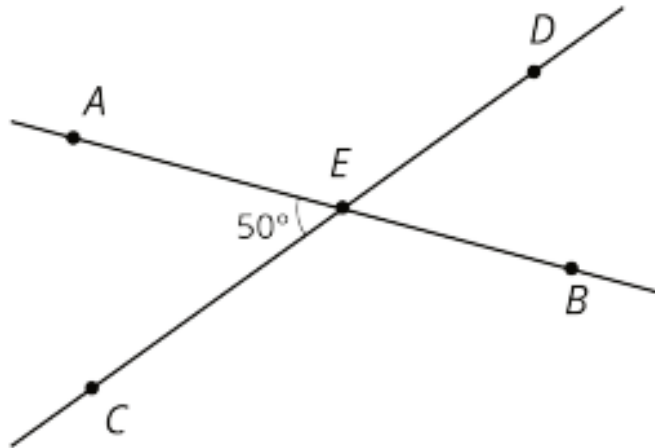
Part 1 Point P above is located at (7, 6). Write the location of Point P' if Triangle PQR were rotated 180° around the origin (0, 0). (,)

Part 2 Point Q above is located at (3, 5). Write the location of Point Q' if Triangle PQR were translated left 7 units. (,)

Part 3 Point R above is located at (5, 2). Write the location of Point R' if Triangle PQR were rotated 90° clockwise around the origin (0, 0). (,)

Question 5

Lines AB and CD intersect at E .

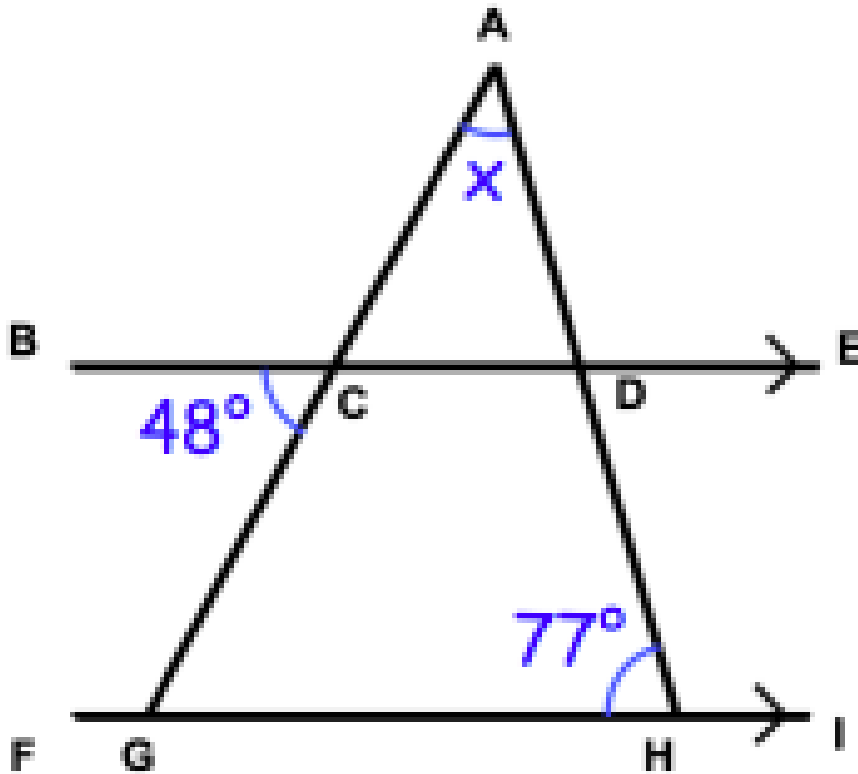


Select **all** the true statements.

- (A) The measure of angle CEB is equal to the measure of angle AED .
- (B) The sum of the measures of angles CEB and AED is 180 degrees.
- (C) The measure of angle AEC is equal to the measure of angle CEB .
- (D) The sum of the measures of angles CEB and AEC is 180 degrees

Question 6

Lines BE and FI are parallel.



Part 1 What is the measure of angle CGH ? _____ degrees

Part 2 What is the measure of angle CDH ? _____ degrees

Part 3 What is the measure of angle x ? _____ degrees