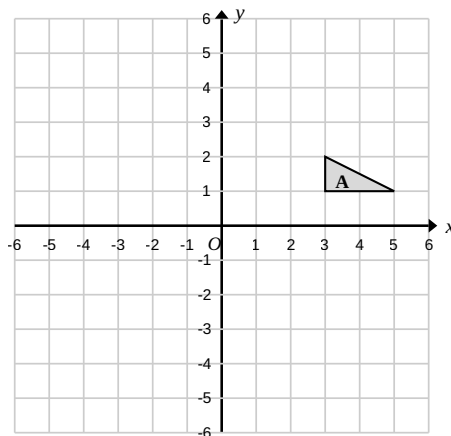


TRANSFORMATIONS: ROTATIONS**Best Guess Mastery Worksheet (Target Grade 4/5)****I Do**

A triangle *A* is drawn on a coordinate grid.

Rotate triangle *A* **90° clockwise** about the origin **(0, 0)**.

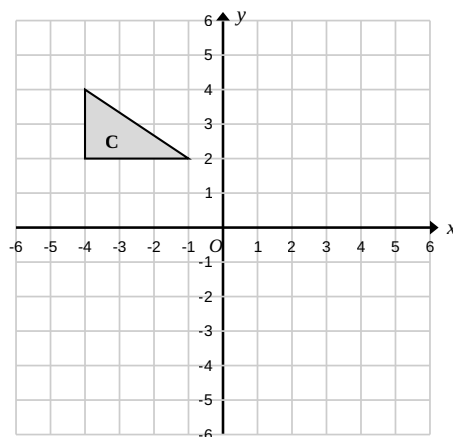
Label the new triangle *B*.

**We Do**

A triangle *C* is drawn on a coordinate grid.

Rotate triangle *C* **90° anti-clockwise** about the point **(-1, 0)**.

Label the new triangle *D*.

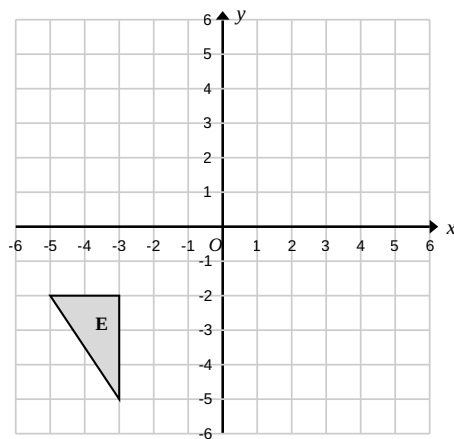


TRANSFORMATIONS: ROTATIONS**Best Guess Mastery Worksheet (Target Grade 4/5)****You Do 1**

A triangle E is drawn on a coordinate grid.

Rotate triangle E 180° about the point $(-1, -1)$.

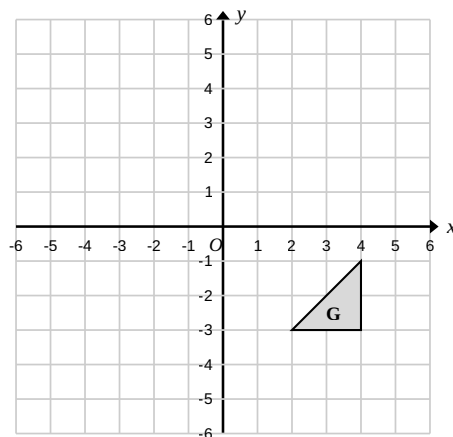
Label the new triangle F .

**You Do 2**

A triangle G is drawn on a coordinate grid.

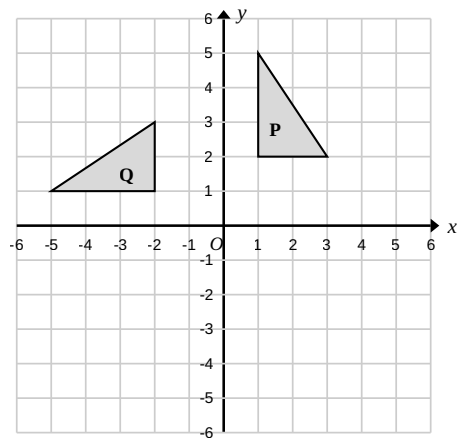
Rotate triangle G 90° **clockwise** about the point $(2, -1)$.

Label the new triangle H .



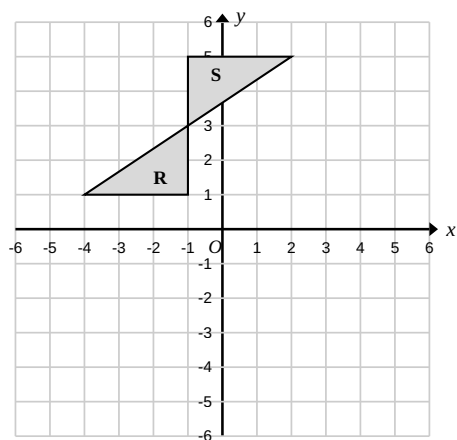
TRANSFORMATIONS: DESCRIBING ROTATIONS**Best Guess Mastery Worksheet (Target Grade 4/5)****Challenge 1**

Describe fully the single transformation that maps triangle P onto triangle Q .



Challenge 2

Describe fully the single transformation that maps triangle *R* onto triangle *S*.



Answers & Worked Solutions**I Do:**

Triangle B is drawn with vertices at $(1, -3)$, $(2, -3)$, and $(1, -5)$.

We Do:

Triangle D is drawn with vertices at $(-3, -3)$, $(-5, -3)$, and $(-3, 0)$.

You Do 1:

Triangle F is drawn with vertices at $(1, 0)$, $(1, 3)$, and $(3, 0)$.

You Do 2:

Triangle H is drawn with vertices at $(0, -1)$, $(0, -3)$, and $(2, -3)$.

Challenge 1:

Rotation, 90° anti-clockwise (or 270° clockwise), centre $(0, 0)$.

(Note: For full marks in an exam, you must explicitly state the transformation type, angle/direction, and coordinate centre).

Challenge 2:

Rotation, 180° , centre $(-1, 3)$.

(Note: Direction is not required for a 180° rotation).