

GRADE 10 ESSENTIAL UNIT G – TRANSFORMATIONS

WORKBOOK



Revised: 191012

2. Perform a translation of the figures at the right by the indicated transformation:

a. the isosceles triangle (L3, D2).

b. the parallelogram (-3, +4)

c. the trapezoid (R2, U4).

d. the obtuse triangle by 3 __5_



3. Perform a **reflection** of the figures by the indicated transformation:

a. acute triangle across the y-axis.

b. irregular rectilinear shape through the xaxis.

c. octagon through the y-axis.

rectangle through d. the x-axis and then through the y-axis.

octagon through e. the x-axis.



4. Perform a **rotation** about the origin (**0**, **0**) for the following as indicated.

a. the rectangle, a **90°** clockwise rotation.

b. the acute triangle, a 180° rotation.

c. the trapezoid, a 90° rotation anti-clockwise.

d. the circle, a 90° rotation clockwise about the origin **then** a reflection through the y-axis.

d. you do one of your own.



5. Perform a **rotation** as indicated.

a. the 'window', a90° clockwise rotation around the centre of rotation point P

b. the triangle, a 90° rotation anti-clockwise about the point A.

6. Perform a **reflection** as indicated:

a. the happy face; a reflection across the horizontal line y = -4.

b. the rhombus (leaning square), a reflection through the vertical line $\mathbf{x} = \mathbf{4}$.

