Practice worksheet | Coordinates and transformations

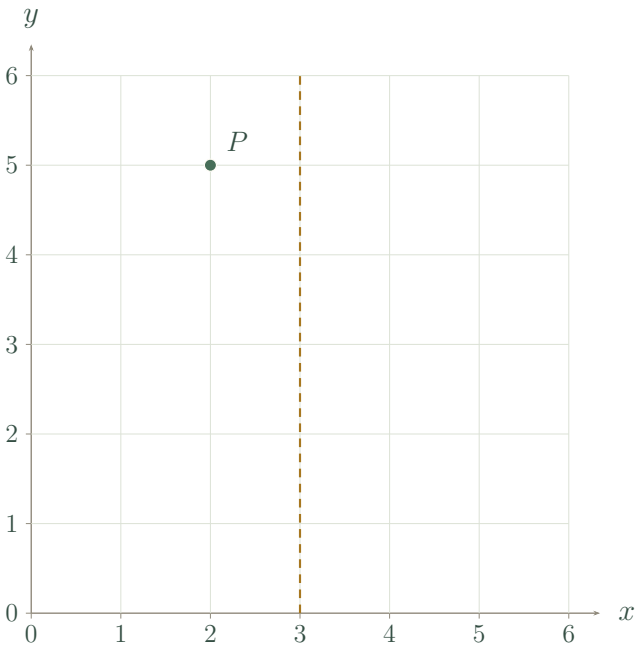
Translations/reflections/rotations

Name: _____ Date: _____

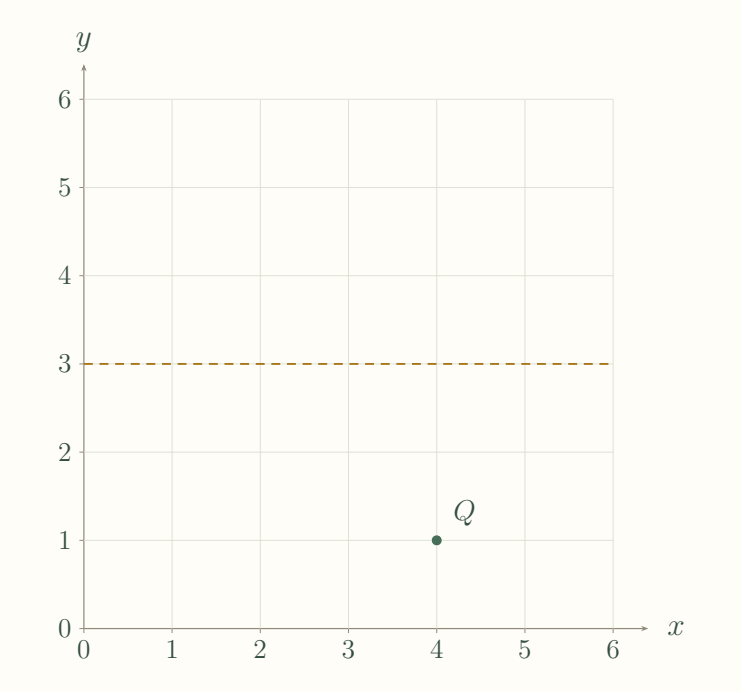
6 questions | 10 marks

1. Translate $P(2, 3)$ by 3 right and 1 down. [1 mark]

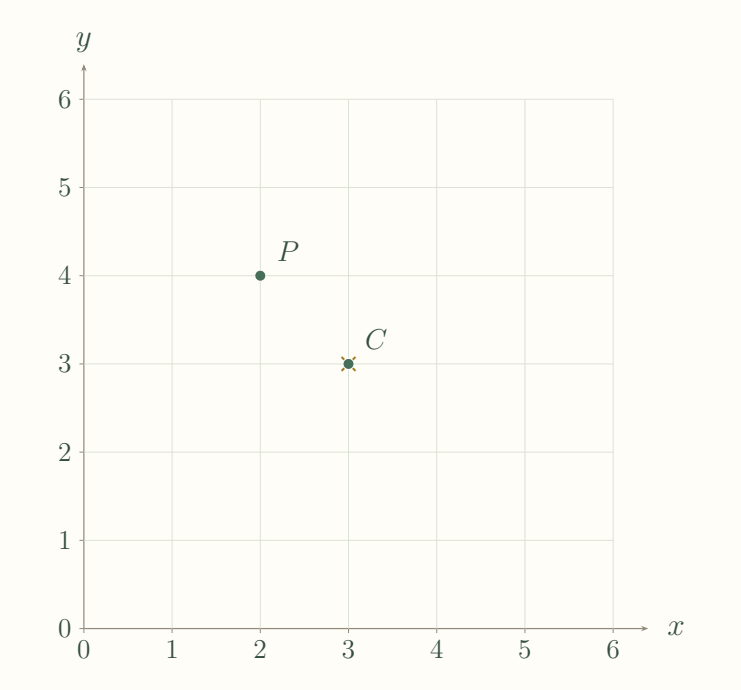
2. Reflect $P(2, 5)$ across $x = 3$. Give its image coordinates. [1 mark]



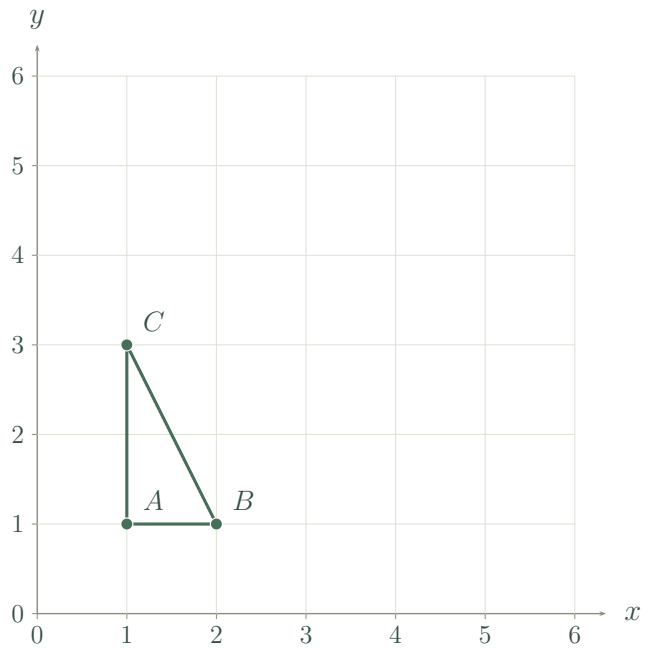
3. Reflect $Q(4, 1)$ across $y = 3$. Give its image coordinates. [1 mark]



4. Rotate $P(2, 4)$ a quarter turn clockwise about $C(3, 3)$. Find its image. [2 marks]



5. Translate $A(1,1)$, $B(2,1)$, $C(1,3)$ by 1 right and 2 up. Give all image coordinates. [3 marks]



6. A pupil moves two triangle corners 2 right but the third corner 3 right. Is this a translation of the whole triangle? Explain. [2 marks]