

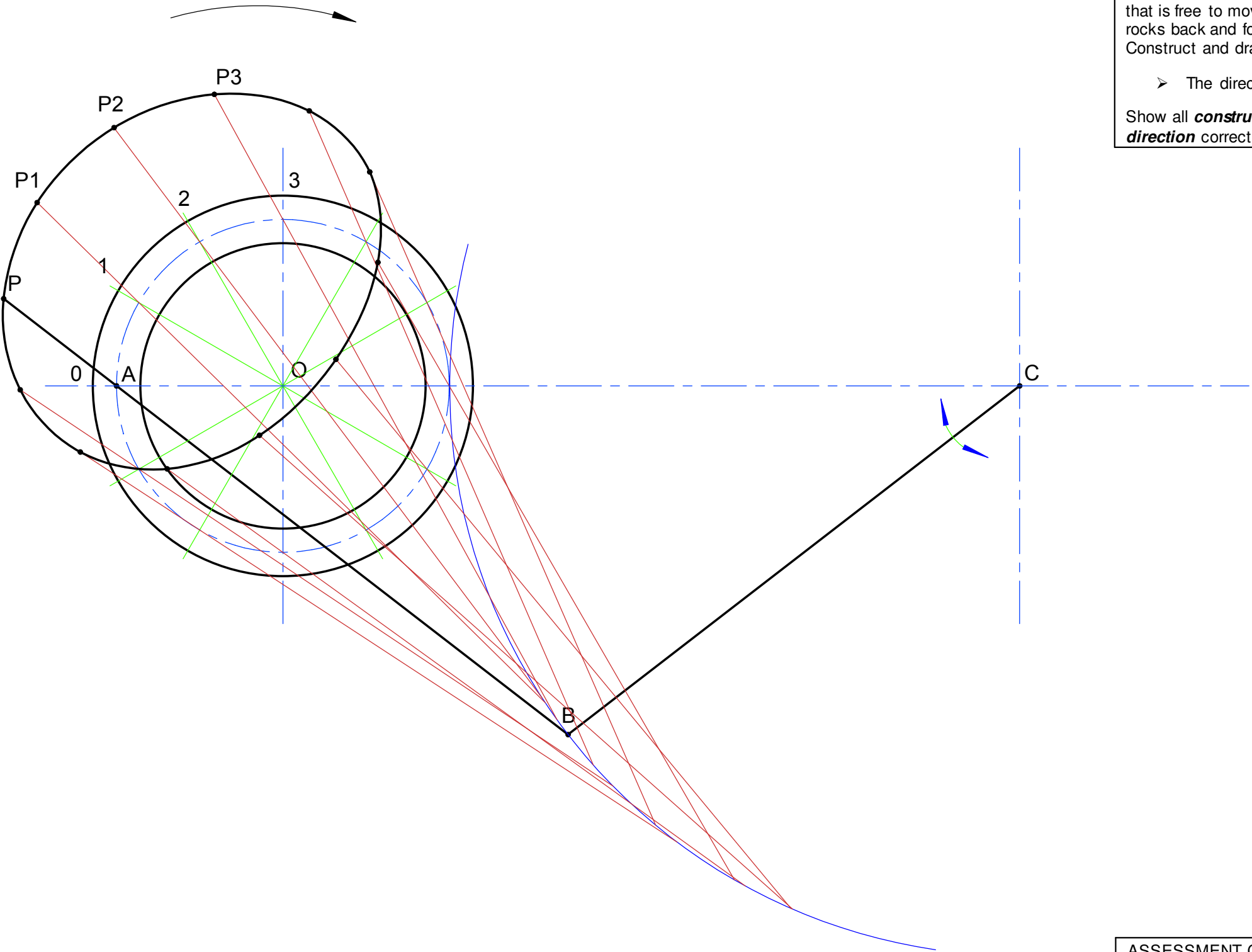
QUESTION 2b

LOCI  
MECHANISM

The given figure shows a wheel, rotating around the centre O, with a **rod** PB attached to it at point A. The end of the rod (B) is attached to a **second rod** that is free to move around its anchor point C. BC rocks back and forth as the wheel rotates. Construct and draw the locus of **point P** if:

- The direction of rotation is **clockwise**.

Show all **constructions** and indicate the **direction** correctly.



| ASSESSMENT CRITERIA                 |             |    |
|-------------------------------------|-------------|----|
| <input checked="" type="checkbox"/> | Setup       | 5  |
| <input checked="" type="checkbox"/> | Plot Points | 11 |
| <input checked="" type="checkbox"/> | Direction   | 1  |
| <input checked="" type="checkbox"/> | Locus       | 3  |

|     |    |  |
|-----|----|--|
| SET | 5  |  |
| PTS | 11 |  |
| DIR | 1  |  |
| LOC | 3  |  |

20 MARKS

EXAMINATION NUMBER

|  |  |  |  |  |  |  |  |  |  |  |  |
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ANSWER SHEET 2b