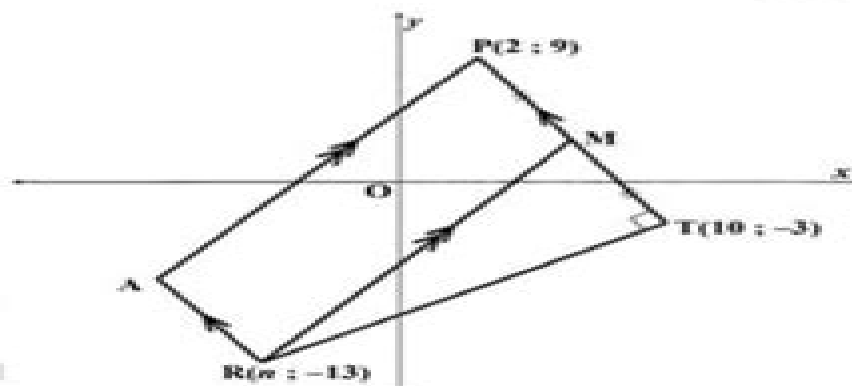


### QUESTION 3

In the diagram below,  $P(2;9)$ ,  $A$ ,  $R(x;-13)$  and  $M$  are vertices of parallelogram  $PARM$ .  $PMT$  is a straight line such that  $M$  is the midpoint of  $PT$ .  $T(10;-3)$  is a point such that  $PT \perp RT$ .



3.1 Determine:

3.1.1 The length of  $PT$  (Leave your answer in surd form.) (2)

3.1.2 The gradient of  $PT$  (2)

3.1.3 The gradient of  $AR$  (1)

3.1.4 The coordinates of  $M$  (3)

3.2 Determine the equation of  $PM$  in the form  $y = mx + c$ . (3)

### QUESTION 3

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**Walter William Rouse Ball**



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