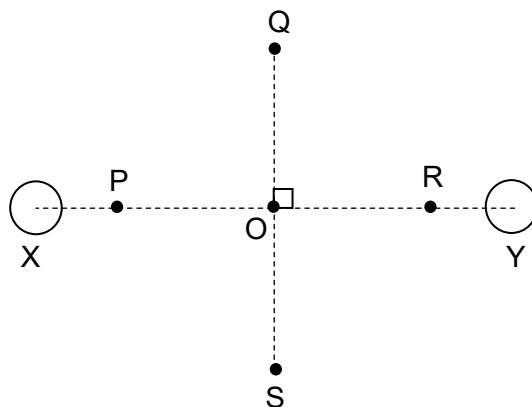
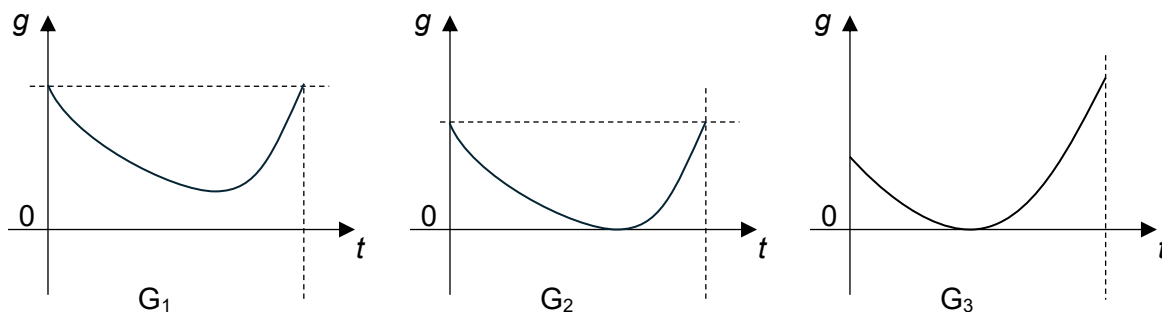


- 9 The diagram shows two stars, X and Y and 5 points, O, P, Q, R and S. O is the midpoint of the line joining the centres of X and Y. P and R are on the line joining the centres of X and Y and are at the same distance from the centres of X and Y respectively. Q and S are on the perpendicular bisector of the line joining P and R and are at the same distance from O.



A spacecraft travels with constant acceleration in its direction of travel between 2 points.

Graphs G_1 , G_2 and G_3 show the possible variations in the magnitude of the resultant gravitational field strength g due to the stars at the position of the spacecraft with time t .



Which graphs correspond to the motions of the spacecraft from S to Q and P to R?

	S to Q	P to R
A	G_1	G_2
B	G_1	G_3
C	G_2	G_1
D	G_2	G_3

