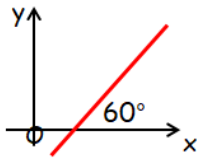
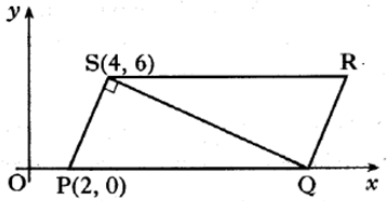
Name:	Date:
Question 1: Calculate the gradient of this line WITHOUT a calculator!  	1·3 Bronze Outcome 1
Question 2: Calculate the length of the line joining the points (-1, -5) and (11, 0).	1·4 Outcome 1
Question 3: Find the equation of the straight line which is perpendicular to the line with equation $x + 2y = 8$ and which passes through the point $(-3, 6)$.	1·6 Silver Outcome 2
Question 4: Prove that the points A(-6, -5), B(0, -2) and C(18, 7) are collinear.	1·7 Outcome 1
Question 5: Triangle DEF has vertices D(-5, 4), E(3, 6) and F(5, -1). Calculate the equation of the perpendicular bisector DE.	1·8 Gold Outcome 3
My score:	

Exam Questions

Question 1:

PQRS is a parallelogram. P is the point (2, 0), S is (4, 6) and Q lies on the x-axis, as shown.

The diagonal QS is perpendicular to the side PS.

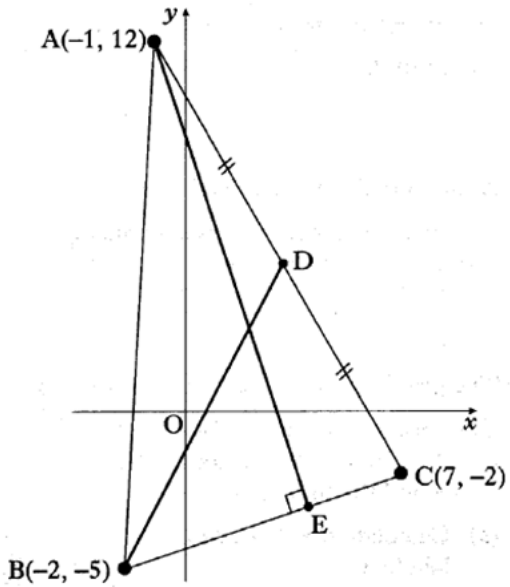


(a) Show that the equation of QS is $x + 3y = 22$. **4**

(b) Hence find the coordinates of Q and R. **2**

Question 2:

Triangle ABC has vertices A(–1, 12), B(–2, –5) and C(7, –2).



(a) Find the equation of the median BD. **3**

(b) Find the equation of the altitude AE. **3**

(c) Find the coordinates of the point of intersection of BD and AE. **3**

My score: