

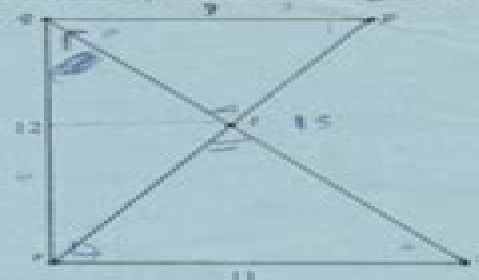
4. (i) Prove that if the angles of two triangles are equal in measure, then the lengths of their corresponding sides are proportional.

- (ii) In the diagram,  $pq \parallel rs$  and  $pq \perp qr$ .

The lengths of three of the lines are shown.

Calculate (iii)  $|pr|$  15

(iv)  $|qr|$ .



5. M is the line  $2x - y = 3$ .

Investigate if the points  $q(2, 6)$  and  $p(4, 5)$  are in M.

Find the equation of the line through  $q$

(i) parallel to M  $2x - y = 2$

(ii) perpendicular to M.  $\frac{1}{2}x + y = 7$

$$= (2(2))^2 + (6(1))^2 = (12)^2$$

$$\frac{144}{225}$$

$$\sqrt{225} = 15$$

Calculate the area of the triangle  $pqr$ , if  $r$  is the intersection of the X-axis and the line through  $(2, 6)$  parallel to M.

$$y = 2x + 2$$

$$y = \frac{1}{2}x + 2$$

6. Write down the equation of the circle

(i)  $K_1$  centre  $(0, 0)$ , radius length 10

(ii)  $K_2$  centre  $(3, 4)$ , when  $K_2$  contains  $(0, 0)$

(iii)  $K_3$  centre  $(-3, -4)$ , when  $K_3$  contains  $(0, 0)$ .

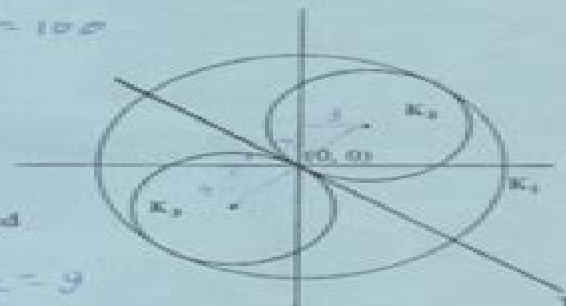
Find (iv) the equation of the tangent T through  $(0, 0)$  and common to  $K_2$  and  $K_3$ .

(v) the coordinates of points in  $T \cap K_1$ .

$$x^2 + y^2 = 100$$

$$-\frac{3}{4}x = y$$

$$K_2: \frac{x}{3} = y$$



$$x^2 + \frac{9}{16}x^2 = 100$$

$$16x^2 + 9x^2 = 1600$$

$$25x^2 = 25(64) \quad \text{OVER} \rightarrow$$

$$x^2 = 64$$

$$x = \pm 8$$

$$y = \mp 6$$

$$(8, -6)$$

$$(-8, 6)$$

# Junior Cert Maths Papers 2011

**Damian Murchan, Gerry Shiel**



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**Understanding and Applying Assessment in Education** Damian Murchan, Gerry Shiel, 2024-04-09 All teachers are responsible for assessing the children they teach and the outcomes of any assessment are important for individual learners schools and wider education systems Designed as a pragmatic guide for new teachers and those training to teach this book is your one stop shop for understanding assessment in schools It covers formative and summative approaches used across primary and secondary education supporting a balanced overview with policy examples drawn from the UK Ireland and wider international contexts This updated second edition reflects recent trends in assessment and includes more balanced coverage across primary and secondary age phases with a broader range of examples across curriculum subject areas a new chapter on the potential of digital assessment for both formative and summative purposes the impact of the COVID 19 pandemic on assessment in general and examinations in particular Damian Murchan is Associate Professor in the School of Education at Trinity College Dublin Gerry Shiel is a Research Fellow at the Educational Research Centre Dublin Ireland

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