

Chapter 6 Test – Circles

Time allowed: 50 mins

Total: 24 marks

1) The line segment QR is a diameter of the circle centre C , where Q and R have coordinates $(11, 12)$ and $(-5, 0)$ respectively. The point P has coordinates $(13, 6)$.

a) Find the coordinates of C

(2 marks)

b) Find the radius of the circle.

(2 marks)

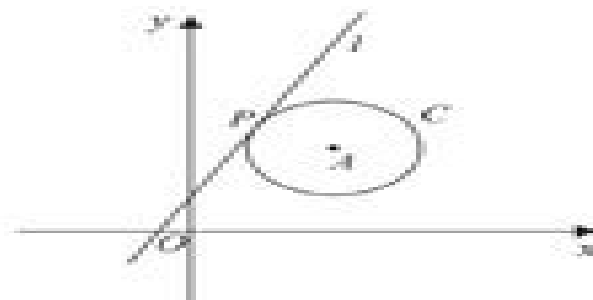
c) Write down the equation of the circle.

(1 mark)

d) Show that P lies on the circle.

(1 mark)

2)



Not to scale

The circle C has centre A with coordinates $(7, 5)$.

The line l , with equation $y = 2x + 1$, is the tangent to C at the point P , as shown in the diagram above.

a) Show that an equation of the line PA is $2y + x = 17$

(3 marks)

b) Find an equation for C .

(4 marks)

The line with equation $y = 2x + k$, $k \neq 1$ is also a tangent to C .

c) Find the value of the constant k .

(3 marks)

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Lei Shi



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Resources in Education, 1998 *Digest of Education Statistics 2006* Thomas D. Snyder, Sally A. Dillow, Charlene M. Hoffman, 2007 *The Learning Hive* Elizabeth Chu, Andrea Clay, Ayeola Kinlaw, Meghan Snyder, Why do some school systems and organizations outperform their peers despite using similar strategies and materials Look to leadership system design and implementation not policies and rules and the answer begins to take shape This book offers a new vision of leadership and education system design organized around dynamic learning hives collections of people working together to treat daily operations as ongoing opportunities for collaborative learning and improvement Grounded in the Center for Public Research and Leadership's Leading Through Learning framework the book helps cultivate education systems where dynamic governance and democratic participation enable the creation and ongoing improvement of educational strategies tailored to the unique needs of every student and community The Learning Hive is a must read for leaders in education dedicated to creating adaptive equitable and high performing systems Filled with helpful case studies practical tools and real life examples this resource will help leaders transform organizations and systems into thriving ecosystems of learning and growth where every student can succeed Book Features Supports leaders in applying leadership and system design oriented approaches to continuous learning that go beyond the often siloed problem oriented applications of improvement science Provides case studies showing systems and leaders enacting the book's principles Offers assessments to evaluate measurement systems culture and shared vision governance structure and knowledge management as well as numerous mapping exercises to visualize and revise key improvement factors Includes access to a companion online playbook for the Leading Through Learning framework that includes video explainers interviews and additional tools leadingthroughlearning.org

Author-title Catalog University of California, Berkeley. Library, 1963 *Waste of a White Skin* Tiffany Willoughby-Herard, 2015-01-06 A pathbreaking history of the development of scientific racism white nationalism and segregationist philanthropy in the U S and South Africa in the early twentieth century Waste of a White Skin focuses on the American Carnegie Corporation's study of race in South Africa the Poor White Study and its influence on the creation of apartheid This book demonstrates the ways in which U S elites supported apartheid and Afrikaner Nationalism in the critical period prior to 1948 through philanthropic interventions and shaping scholarly knowledge production Rather than comparing racial democracies and their engagement with scientific racism Willoughby Herard outlines the ways in which a racial regime of global whiteness constitutes domestic racial policies and in part animates black consciousness in seemingly disparate and discontinuous racial democracies This book uses key paradigms in black political thought black feminism black internationalism and the black radical tradition to provide a rich account of poverty and work Much of the scholarship on whiteness in South Africa overlooks the complex politics of white poverty and what they mean for the making of black political action and black people's presence in the economic system Ideal for students scholars and interested readers in

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