

The Circle Past Papers Unit 2 outcome 4

Multiple Choice Questions

Each correct answer in this section is worth two marks.

1. A circle has equation $(x - 3)^2 + (y + 4)^2 = 20$.

Find the gradient of the tangent to the circle at the point $(1, 0)$.

- A. -2
 B. $-\frac{1}{2}$
 C. $\frac{1}{2}$
 D. 2

Key	Outcome	Grade	Facility	Disc.	Calculator	Content	Source
C	2.4	C	0.43	0.77	NC	G9, G2, G5	HSN 097

The centre is $(3, -4)$.

$$m_{\text{radius}} = \frac{0 - (-4)}{1 - 3} = \frac{4}{-2} = -2.$$

So $m_{\text{tgt}} = \frac{1}{2}$ since the radius and tangent are perpendicular.

Option **C**

[END OF MULTIPLE CHOICE QUESTIONS]

Written Questions

- [SQA] 2. Find the equation of the tangent at the point $(3, 4)$ on the circle $x^2 + y^2 + 2x - 4y - 15 = 0$.

4

part	marks	Unit	non-calc		calc		calc/geom		Context Reference : Main Additional	1.1 Source 1996 P1 qu.8
			C	A/R	C	A/R	C	A/R		
.	4	1.1					4		1.1.1 1.1.3, 2.4.2	
*¹ centre = $(-1, 2)$ *² $m_{\text{radius}} = \frac{1}{3}$ *³ $m_{\text{tgt}} = -3$ *⁴ $y - 4 = -3(x - 3)$										

The Circle Past Papers Unit Outcome 4

Michael Seilmaier



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web quartus and vhd code in this section you should learn how to implement a vhd code for single cycle data path before we go any further let s define some of the terms that we use throughout the book entity all designs are expressed in terms of entities an entity is the most basic building block in a design