2015-DSE 數學 必修部分

卷一

香港考試及評核局 2015年香港中學文憑考試

數學 必修部分 試卷一 試題答題簿

本試卷必須用中文作答 兩小時十五分鐘完卷 (上午八時三十分至上午十時四十五分)

考生須知

- 1. 宣布開考後,考生須首先在第1頁之適當位 置填寫考生編號,並在第1、3、5、7、9 及11頁之適當位置貼上電腦條碼。
- 2. 本試卷分**三部**,即甲部(1)、甲部(2)和乙部。
- 3. 本試卷各題均須作答,答案須寫在本試題答題簿中預留的空位內。不可在各頁邊界以外位置書寫。寫於邊界以外的答案,將不予評閱。
- 4. 如有需要,可要求派發方格紙及補充答題 紙。每張紙均須填寫考生編號、填畫試題 編號方格、貼上電腦條碼,並用繩縛於**篩** 內。
- 5. 除特別指明外,須詳細列出所有算式。
- 6. 除特別指明外,數值答案須用真確值,或 準確至三位有效數字的近似值表示。
- 7. 本試卷的附圖不一定依比例繪成。
- 試場主任宣布停筆後,考生不會獲得額外時間貼上電腦條碼及填畫試題編號方格。

請在此貼上電腦條碼



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0.	當 <u>素姍</u> 在某月售出 n 個手袋時, 她該月的收入是 $\$S$ 。 已知 S 為兩部分之和, ·	_
υ.	分為常數,而另一部分隨 n 正變。 當 $n=10$ 時, $S=10600$; 當 $n=6$ [
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	a) 當 <u>素姍</u> 在某月售出 20 個手袋時,求她該月的收入。 (4	4 5
	b) 當 <u>素</u> 一在某月售出若干個手袋時,她該月的收入有沒有可能是 \$18000 ? 試 你的答案。 (2	解 2 タ
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	$f(x) = (x-2)^2(x+h) + k$, 其中 h 及 k 均為常數。 當 $f(x)$ 除以 $x-2$ 時, -5 。 已知 $f(x)$ 可被 $x-3$ 整除。
(a)	求 h 及 k。
(b)	某人宣稱方程 f(x)=0 所有的根均為整數。 你是否同意? 試解釋你的答案。
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	(a)	求上述分佈的平均值、中位數及分佈域。 (3	分)
	(b)	現再有兩名學生加入該學會。 得知體重的分佈的平均值及分佈域均增加 1 kg 求這兩名學生各人的體重。 (4	; ° ¦分)
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3.	圖 2 中, $ABCD$ 為一正方形。 $E$ 及 $F$ 分別為 $BC$ 及 $CD$ 上的點使得 $AE=B$ $AE$ 與 $BF$ 相交於 $G$ 。	F •
	B $E$ $C$	
	(a) 證明 ΔABE≅ΔBCF。	2分)
	(b) ΔBGE 是否一直角三角形? 試解釋你的答案。 (	3分)
	(c) 若 $CF = 15$ cm 及 $EG = 9$ cm ,求 $BG$ 。	2分)
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4.	點 P	及點 Q 的坐標分別為 (4,-1) 及 (-14,23)。
	(a)	設 $L$ 為 $PQ$ 的垂直平分線。
		(i) 求 L 的方程。
		(ii) 假定 $G$ 為 $L$ 上的一點。 將 $G$ 的 $x$ 坐標記為 $h$ 。 設 $C$ 為一圓,其圓心 為 $G$ 且通過 $P$ 及 $Q$ 。
	(b)	點 $R$ 的坐標為 $(26,43)$ 。 利用 $(a)(ii)$ ,或其他方法,求通過 $P$ 、 $Q$ 及 $R$ 的圓的直徑。
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對任意正整數 n , 設 A(n) = 4n 5 及  $B(n) = 10^{4n-5}$  。

(b) 求 n 的最大值使得  $\log \left( B(1)B(2)B(3)\cdots B(n) \right) \leq 8\,000$  。

以 n 表  $A(1) + A(2) + A(3) + \cdots + A(n)$  。

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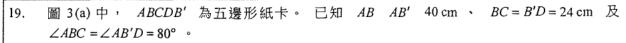
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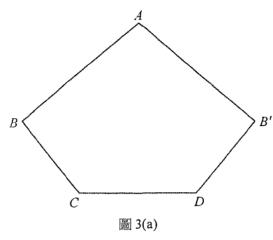
(a)	y = f(x) 的圖像是否與 $x$ 軸相交? 試解釋你的答案。	(2分
. ,		
(b)	利用配方法,以 $k$ 表 $y=f(x)$ 的圖像的頂點的坐標。	(3分
(c)	在同一直角坐標系中,設 $S$ 及 $T$ 分別為 $y=f(x)$ 的圖像及 $y=2-f(x)$ 上的動點。 將原點記為 $O$ 。 某人宣稱當 $S$ 與 $T$ 最接近時, $\Delta OST$ 在 $x$ 軸上。 該宣稱是否正確? 試解釋你的答案。	
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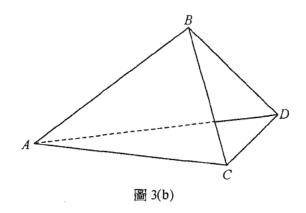
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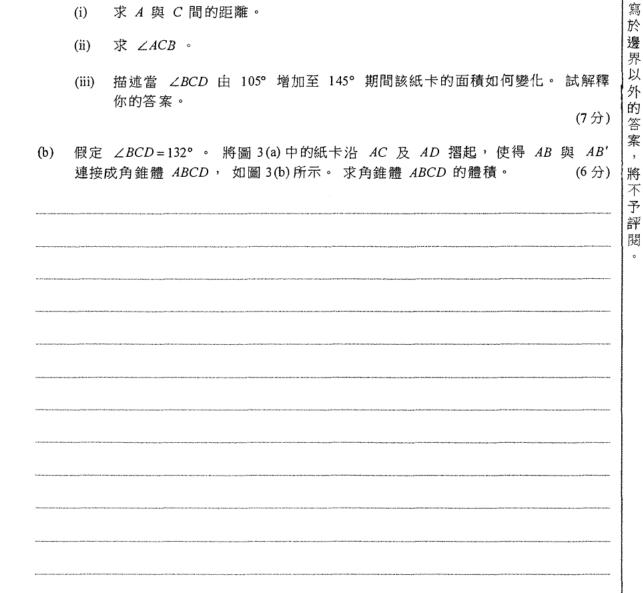




- 假定 105°≤∠BCD≤145°。 (a)
  - (i) 求 A 與 C 間的距離。
  - (ii) 求 ∠ACB。
  - 描述當 ∠BCD 由 105° 增加至 145° 期間該紙卡的面積如何變化。 試解釋 (iii) 你的答案。

(7分)

(b)	假定 $\angle BCD = 132$ °。	將圖 3(a	) 中的紙卡洛	$\frac{1}{2}$ AC $\frac{1}{2}$	$\lambda AD$	摺起, 倒	更得 AB	與 AB'
	連接成角錐體 ABCD	, 如圖 3(	(b) 所示。 求	(角錐體	ABCD	的體積。	•	(6分)



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