**PHIẾU HỌC TẬP BÀI PHƯƠNG TRÌNH ĐẲNG CẤP BẬC HAI.**

**.** Giaûi caùc phöông trình sau:

1. 2sin2x + sinx.cosx – 3cos2x = 0

Xeùt 2 tröôøng hôïp:

• cosx = 0 không là nghiệm của phương trình.

• cosx ≠ 0 chia 2 vế phương trình cho cos2x ta được:

 2tan2x + tanx – 3 = 0

⇔ tanx=1 hay tanx=-3/2

⇔x=$π$/4+k$ π$ hay x=arctan(-3/2)+ k$ π$

b) 3sin2x – 4sinxcosx +5cos2x = 2

• cosx = 0 không là nghiệm của phương trình.

• cosx ≠ 0 chia 2 vế phương trình cho cos2x ta được:

 tan2x – 4tanx + 3 = 0

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1. sin2x + sin2x – 2cos2x = 

• cosx = 0 không là nghiệm của phương trình.

• cosx ≠ 0 chia 2 vế phương trình cho cos2x ta được:

tan2x + 4tanx – 5 = 0

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1. cos2x – sinx.cosx = 0

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1. 2cos2x–3sin2x–4sin2x = –4

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**KIEÅM TRA 1 TIEÁT CHÖÔNG I THAM KHẢO**

**NOÄI DUNG ÑEÀ KIEÅM TRA:**

**A. Phaàn traéc nghieäm:** (4 ñieåm)

**Caâu 1**: Haøm soá  xaùc ñònh vôùi:

 A.  B.  C.  D. 

**Caâu 2**: Haøm soá y = cot2x xaùc ñònh vôùi:

 A. ∀x ≠  B. ∀x ≠ kπ C. ∀x ≠ π +kπ D. ∀x ∈ R

**Caâu 3**: Ñoà thò haøm soá  ñi qua ñieåm:

 A. O(0; 0) B.  C.  D. 

**Caâu 4**: Haøm soá naøo sau ñaây ñoàng bieán treân khoaûng :

 A. B.  C.  D. 

**Caâu 5**: Phöông trình  coù nghieäm:

 A.  B.  C.  D. 

**Caâu 6**: Phöông trình  coù nghieäm:

 A.  B.  C.  D. 

**Caâu 7**: Phöông trình sin2x = 0 coù nghieäm laø :

 A.  B.  C.  D. 

**Caâu 8**: Phöông trình  coù nghieäm laø :

 A.  B. 

 C.  D. 

**II. Phaàn töï luaän:** (6 ñieåm) Giaûi caùc phöông trình sau:

 a) 2sin2x – 1 = 0 . b) . c) sin3x + cos3x = sinx.

**V. ÑAÙP AÙN VAØ BIEÅU ÑIEÅM:**

**A. Traéc nghieäm:** (Moãi caâu 0,5 ñieåm)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Caâu 1** | **Caâu 2** | **Caâu 3** | **Caâu 4** | **Caâu 5** | **Caâu 6** | **Caâu 7** | **Caâu 8** |
| **B** | **A** | **B** | **C** | **C** | **D** | **B** | **D** |

**B. Töï luaän:** Moãi caâu 2 ñieåm

 a) 2sin2x – 1 = 0 ⇔ cos2x = 0 (1 ñieåm)

 ⇔ 2x =  ⇔ x =  (1 ñieåm)

 b)  ⇔ cosx(sinx + cosx) = 0 (0,5 ñieåm)

 ⇔  (0,5 ñieåm)

 ⇔  (1 ñieåm)

 c) sin3x + cos3x = sinx ⇔  (0,5 ñieåm)

 ⇔  (1 ñieåm)

 ⇔  (0,5 ñieåm)

**Chöông II: ÑÖÔØNG THAÚNG VAØ MAËT PHAÚNG TRONG KHOÂNG GIAN.**

 **QUAN HEÄ SONG SONG**  **Baøøi 1: ÑAÏI CÖÔNG VEÀ ÑÖÔØNG THAÚNG VAØ MAËT PHAÚNG**

**I. Caùch xaùc ñònh moät maët phaúng**

***1. Ba caùch xaùc ñònh maët phaúng***

*Maët phaúng ñöôïc hoaøn toaøn xaùc ñònh neáu bieát:*

*• Noù ñi qua ba ñieåm khoâng thaúng haøng. (mp(ABC))*

*• Noù ñi qua moät ñieåm vaø chöùa moät ñöôøng thaúng khoâng ñi qua ñieåm ñoù. (mp(A,d))*

*• Noù chöùa hai ñöôøng thaúng caét nhau. (mp(a,b))*



**Ñ1.** Ba ñieåm khoâng thaúng haøng.





**VD1:** Cho 4 ñieåm khoâng ñoàng phaúng A, B, C, D. Treân hai ñoaïn AB vaø AC laáy hai ñieåm M, N sao cho AM = BM, AN = 2NC. Haõy xaùc ñònh giao tuyeán cuûa mp(DMN) vôùi caùc mp(ABD), (ACD), (ABC).

**Ñ1.** Tìm hai ñieåm chung cuûa hai maët phaúng.



(DMN) ∩ (ABD) = MD

(DMN) ∩ (ACD) = ND

(DMN) ∩ (ABC) = MN

**Ñ2.** Ba ñieåm cuøng naèm treân moät ñöôøng thaúng.

**VD2:** Cho 4 ñieåm khoâng ñoàng phaúng A, B, C, D. Treân ba caïnh AB, AC, AD laàn löôït laáy caùc ñieåm M, N, K sao cho MN∩BC=H, NK∩CD=I, KM∩BD=J. Chöùng minh 3 ñieåm H, I, J thaúng haøng.

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HƯỚNG DẪN : I, J, H ∈ (MNK)∩(BCD).

**VD3:** Cho hình choùp S.ABCD ñaùy laø hình bình haønh ABCD. Goïi M, N, P laàn löôït laø trung ñieåm cuûa AB, AD, SC. Tìm giao ñieåm cuûa mp(MNP) vôùi caùc caïnh cuûa hình choùp vaø giao tuyeán cuûa mp(MNP) vôùi caùc maët cuûa hình choùp.

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HƯỚNG DẪN: MNP)∩(ABCD) = MN

(MNP)∩(SAB) = EM

(MNP)∩(SBC) = EP

(MNP)∩(SCD) = PF

(MNP)∩(SDA) = FN

⇒ MEPFN laø thieát dieän cuûa hình choùp S.ABCD khi caét bôûi mp(MNP).

