**-------------------------------------------------------------------------------------**

**public** **class** TestDrive {

**public** **static** **void** main(String[] args) {

**int** h = 5;

**int** b = 9;

**int** l1 = 4;

**int** l2 = 6;

Triunghi T = **new** Triunghi();

**double** ATA = T.ATA(b, h);

System.***out***.println("Aria triunghiului arbitrar este egal cu " + ATA + " unitati patrate.");

**double** ATD = T.ATD(l1, l2);

System.***out***.println("Aria triunghiului dreptunghic este egal cu " + ATD + " unitati patrate.");

**double** ATE = T.ATE(l1);

System.***out***.println("Aria triunghiului echilateral este egal cu " + ATE + " unitati patrate");

**double** ATCFLH = T.ATCFLH(l1, l2, b);

System.***out***.println("Aria triunghiului aplicand formula lui Heron este egal cu " + ATCFLH + " unitati patrate.");

Patrulatere P = **new** Patrulatere();

**double** AP = P.AP(b);

System.***out***.println("Aria patratului este egal cu " + AP + " unitati patrate.");

**double** AD = P.AD(l1, l2);

System.***out***.println("Aria dreptunghiului este egal cu " + AD + " unitati patrate.");

**double** APar = P.APar(b, h);

System.***out***.println("Aria paralelogramului este egal cu " + APar + " unitati patrate.");

**double** AT = P.AT(l1, l2, h);

System.***out***.println("Aria trapezului este egal cu " + AT + " unitati patrate.");

}

}

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**public** **class** Triunghi {

**public** **double** ATA(**int** b, **int** h) {

**return** b \* h / 2;

}

**public** **double** ATD(**int** l1, **int** l2) {

**return** l1 \* l2 / 2;

}

**public** **double** ATE(**int** l1) {

**return** Math.*pow*(l1, l1) \* Math.*sqrt*(3) / 4;

}

**public** **double** ATCFLH(**int** l1, **int** l2, **int** b) {

**double** p = (l1 + l2 + b) / 2;

**return** Math.*sqrt*(p \* (p - l1) \* (p - l2) \* (p - b));

}

}

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**-------------------------------------------------------------------------------------**

**public** **class** Patrulatere {

**public** **double** AP(**int** b) {

**return** Math.*pow*(b, b);

}

**public** **double** AD(**int** l1, **int** l2) {

**return** l1 \* l2;

}

**public** **double** APar(**int** b, **int** h) {

**return** b \* h;

}

**public** **double** AT(**int** l1, **int** l2, **int** h) {

**return** (l1 + l2) \* h / 2;

}

}

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