





مهم جداً

هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20% مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

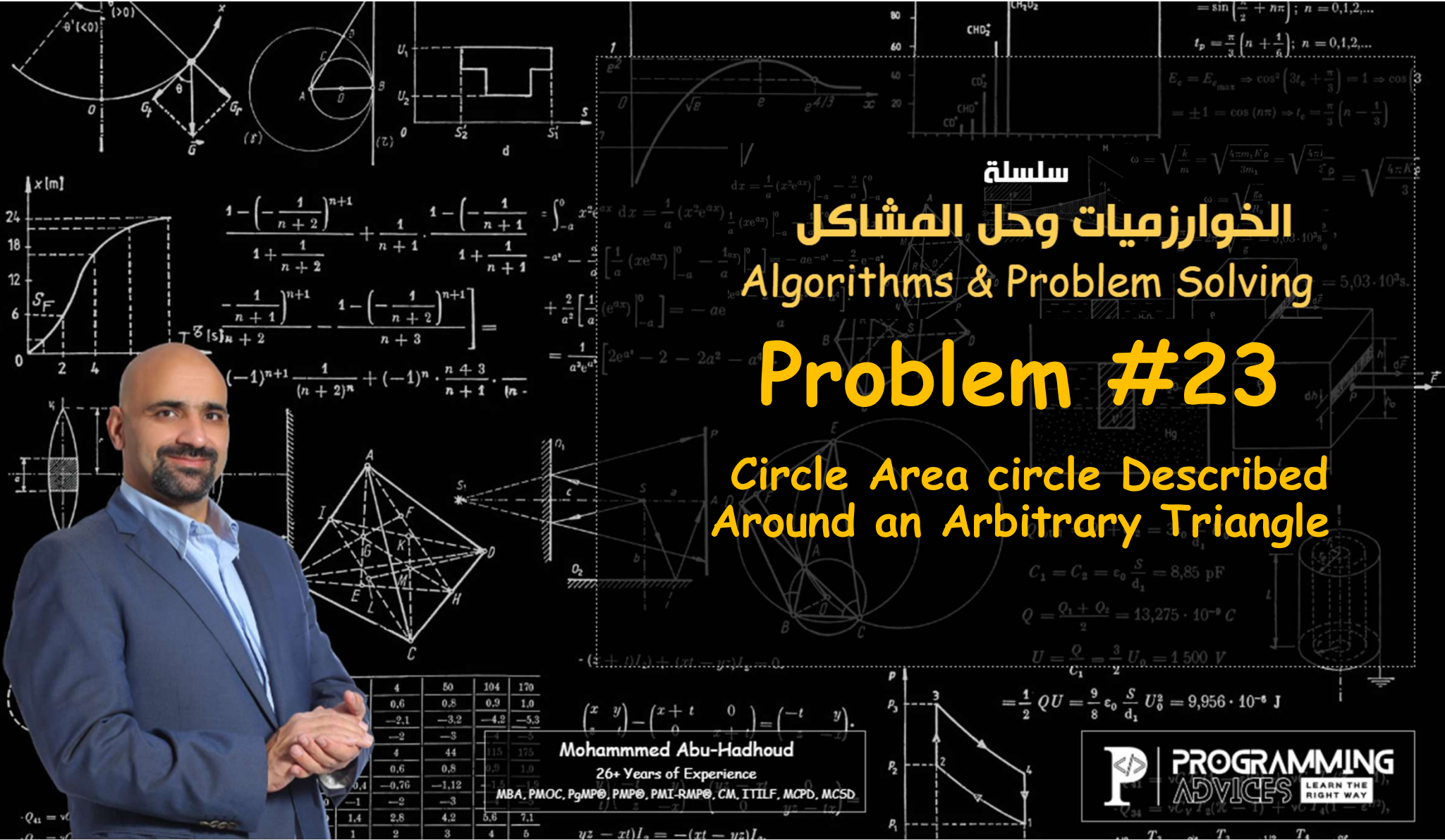
يجب عليك مشاهدة فيديو الدرس كاملا

لاتنسى عمل لايك ومشاركة القناة لتعم الفائدة للجميع
لا تنسونا من دعائكم

ProgrammingAdvices.com

Mohammed Abu-Hadhoud





4	50	104	170
0.6	0.8	0.9	1.0
-2.1	-3.2	-4.2	-5.3
-2	-3		
4	44	115	175
0.6	0.8	0.9	1.0
-0.4	-0.76	-1.12	
-1	-2	-3	
1.4	2.8	4.2	5.6
1	2	3	4

Mohammed Abu-Hadhoud
26+ Years of Experience
MBA, PMOC, PgMP®, PMP®, PMI-RMP®, CM, ITILF, MCPD, MCSD

سلسلة
الخوارزميات وحل المشاكل
Algorithms & Problem Solving
Problem #23

Circle Area circle Described
Around an Arbitrary Triangle

$$C_1 = C_2 = \epsilon_0 \frac{S}{d_1} = 8,85 \text{ pF}$$
$$Q = \frac{Q_1 + Q_2}{2} = 13,275 \cdot 10^{-9} \text{ C}$$
$$U = \frac{Q}{C_1} = \frac{3}{2} U_0 = 1,500 \text{ V}$$

$$= \frac{1}{2} Q U = \frac{9}{8} \epsilon_0 \frac{S}{d_1} U_0^2 = 9,956 \cdot 10^{-6} \text{ J}$$



Problem:

Write a program to calculate circle area circle described around an arbitrary triangle, then print it on the screen.

The use should enter:

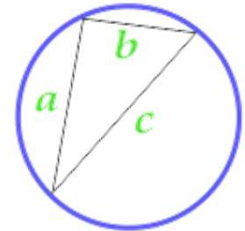
a
b
c

Example Inputs:

5
6
7

Outputs →

40.088



$$p = \frac{a + b + c}{2}$$

$$Area = \pi \cdot \left(\frac{a \cdot b \cdot c}{4 \cdot \sqrt{p \cdot (p - a) \cdot (p - b) \cdot (p - c)}} \right)^2$$



سلسلة

الخوارزميات وحل المشاكل Algorithms & Problem Solving

Solution



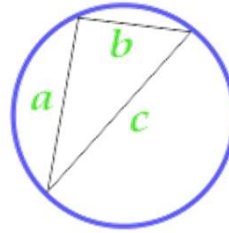
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Solution:

$$p = \frac{a + b + c}{2}$$



$$Area = \pi \cdot \left(\frac{a \cdot b \cdot c}{4 \cdot \sqrt{p \cdot (p-a) \cdot (p-b) \cdot (p-c)}} \right)^2$$

Steps

Step 1: Ask the user to enter a, b, c.

Step 2: PI= 3.14

Step 3: $P = (a + b + c) / 2$

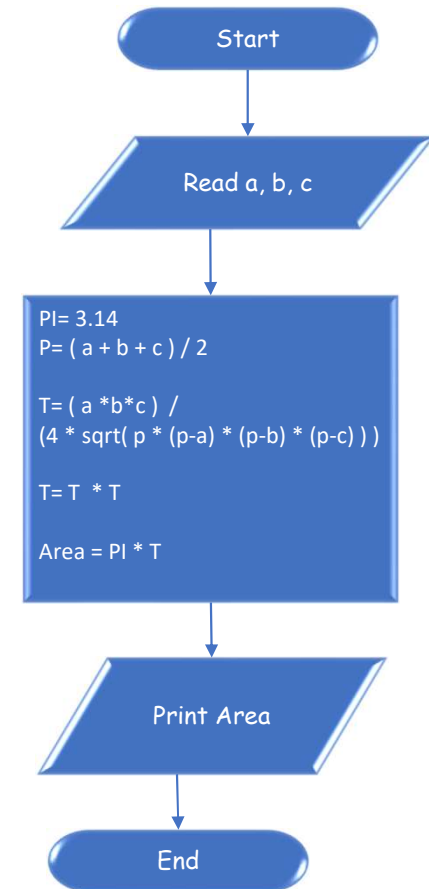
Step 3: $T = (a * b * c) / (4 * \text{sqrt}(p * (p-a) * (p-b) * (p-c)))$

Step 4: $T = T * T$

Step 5: $\text{Area} = \text{PI} * T$

Step 6: Print Area.

Flow Chart





Thank You

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 **PROGRAMMING**
ADVICES LEARN THE RIGHT WAY