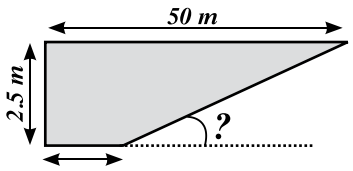
b) Find the equation of the straight line passing through the point (3, -5) and perpendicular to the straight line X + 2Y - 7 = 0.

4 a) The opposite figure shows the cross section of a swimming pool. What angle does the slopping bottom make with the horizontal?



b) **Find** the equation of the straight line which cuts 3 units from the positive part of y - axis and make an angle of a measure 45° in the positive direction to the X-axis.

5 a) If the distance between the two points (a , 7) , (0 , 3) equals 5.

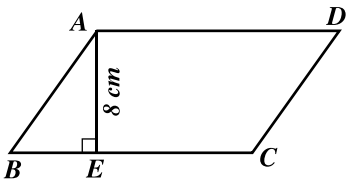
Find the value of a.

b) In the opposite figure:

ABCD is a parallelogram of S.A 96 cm^2,

BE : EC = 1 : 3

$\overline{AE} \perp \overline{BC}$ and AE = 8 cm.



Find:

First: The length of $\overline{AD}$

Second: m ($\angle$ B)

Third: The length of $\overline{AB}$ to nearest decimal number (Use more than one way)

(7) Dakahlia

1 Complete:

1) If A (1 , 2), B (3 , 4) , then the mid point of $\overline{AB}$ is ..... .

2) The slope of S.T line perpendicular on 3x + 4 y - 9 = 0 is ..... .

3) ABC is isosceles right angled at B, then tan A = ...

4) Cos 45° = Sin .....

5) If $L_1 \perp L_2$, the slope of L_1 = 7, then the slope of L_2 = ...

6) 4 cos 30° tan 60° = ...