



Prove that

$(n + 1)^2 + (n + 3)^2 - (n + 5)^2$ is equivalent to $(n + 3)(n - 5)$

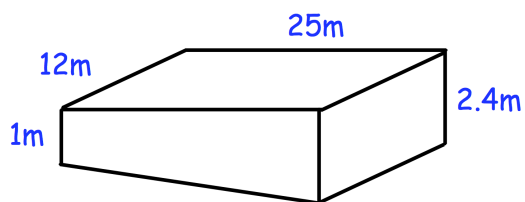
A circle has equation

$$x^2 + y^2 = \frac{1}{9}$$

Write down the length of its radius

Solve $6x^2 - 13x + 7 < 0$

Shown below is a swimming pool



The swimming pool is full of water. Kevagh begins to empty the swimming pool at a constant rate.

The level of the water goes down by 5cm in the first 20 minutes.

Work out how long it takes in total to empty the swimming pool.