



1 square is 1 metre

Section 1, straight line from $(-14, 2)$ to $(-1, 8)$ is $y = \frac{6}{13}x + 8.46$

①

Section 2 will be a sin graph. Amplitude is 2 (up and down 2 about $y = 6$) and the period is 8.

$$y = 2\sin\frac{2\pi}{8}(x - 5) + 6$$

①

Section 3 is a parabola. Vertex is at $(7, 8)$. It goes through $(15, 0)$. $y = \frac{-1}{8}(x - 15)(x + 1)$

①

Section 4 is exponential $y = A \cdot 2^{x-B} + C$. The curve is moved over 15. $y = -2^{x-15} + 1$

①

The instructor is the red line, $y = 3.5$ between $x = -9.5$ and $x = 13$

②