Here is a circle, centre O, and the tangent to the circle at the point \((2, -4)\).

Find the equation of the tangent at the point \(P\).

\[ m \text{ is an integer} \]

Solve
\[ m^2 + 5m - 36 < 0 \]

Calculate an estimate for the acceleration after 40 seconds.

Here is a velocity time graph for the first 60 seconds of a journey.

Calculate an estimate for the total distance travelled in the 60 seconds.

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