

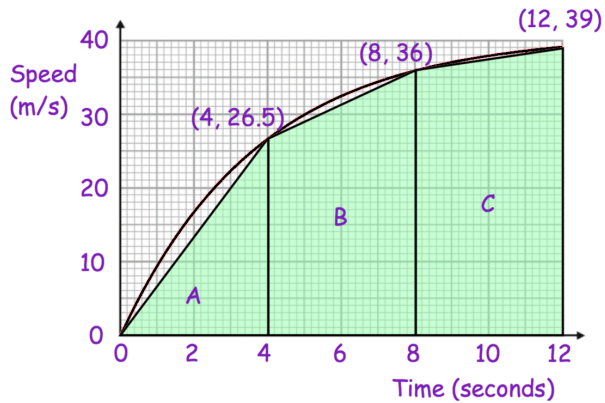


$$f(x) = kx + 7$$

$$g(x) = 3x - 2$$

Given $gf(1) = 34$

Work out the value of k



By finding the areas of A, B and C, find an estimate for the total distance travelled by the car.

Here is the speed-time graph for a car's journey.

Is your answer an overestimate or an underestimate for the distance that the car travelled?

Solve

$$\frac{2}{2x-3} - \frac{3}{x+4} = 2$$

Give your solutions to 2 significant figures