



Calculus: Newton

Basic

2) The graph below records how the speed of a car (in metres per second) varies as it sets off. Estimate the distance travelled after 60 seconds.





Core

1) The graph below records how the speed of a car (in metres per second) varies as it sets off. Estimate the distance travelled after 60 seconds.



2) Find the gradient of the curve at the given points using the drawn tangents.





Calculus: Newton

Core



3) Calculate the shaded area in the diagrams below:



Advanced

1) Calculate the gradient of the following curves at the given points:



2) Calculate the shaded area in the diagrams below:





Calculus: Newton

ANSWERS						
Basic						
1) a) 3	b) -1	c) -2	d) 4	e) $\frac{1}{2}$	f) $\frac{1}{3}$	
2) 975m						
Core						
1) 975m						
2) a) 4	b) 0	c) -1				
3) a) 16 units²	b) 10 units²					
			Advanced			
1) a) 4	b) 0	c) -1				
2) a) 9 units ² b) 16 $\frac{1}{3}$ units ²						