

## Differentiation/Gradients Answer Key

Increasingly  
Difficult  
Exercises

a)  $\frac{dy}{dx} = 2x$

b)  $\frac{dy}{dx} = 2x + 5$

c)  $\frac{dy}{dx} = 6x - 2$

d)  $\frac{dy}{dx} = 2x + 2$

e)  $m = 12$

f)  $m = 1$

g)  $m = -7$

h)  $m = 7$

i)  $y = 5x - 3$

j)  $y = -x - 3$

k)  $y = -13x - 37$

l)  $y = 27x - 125$

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