$$y = x^{3/2} - 2x^{-1}$$
 $\frac{dy}{dx} = \frac{3}{2}x^{1/2} + 2x^{-1}$

Question		Generic scheme	Illustrative scheme	Max mark
4.		 express first term in differentiable form differentiate first term differentiate second term 	•¹ $y = x^{\frac{3}{2}}$ stated or implied by •² •² $\frac{3}{2}x^{\frac{1}{2}}$ •³ + $2x^{-2}$	3

Notes:

- 1. \bullet^2 is only available for differentiating a term with a fractional index.
- 2. Where candidates attempt to integrate throughout, only \bullet^1 is available.

Commonly Observed Responses:

Candidate A - differentiating over two lines

$$y = x^{2} + 2x^{-2}$$

$$y = \frac{3}{2}x^{\frac{1}{2}} + 2x^{-2}$$

•¹ ✓