

**1.** A curve has equation

$$y = \frac{2}{3}x^3 - \frac{7}{2}x^2 - 4x + 5$$

(a) Find  $\frac{dy}{dx}$  writing your answer in simplest form.

**(2)**

(b) Hence find the range of values of  $x$  for which  $y$  is decreasing.

**(4)**