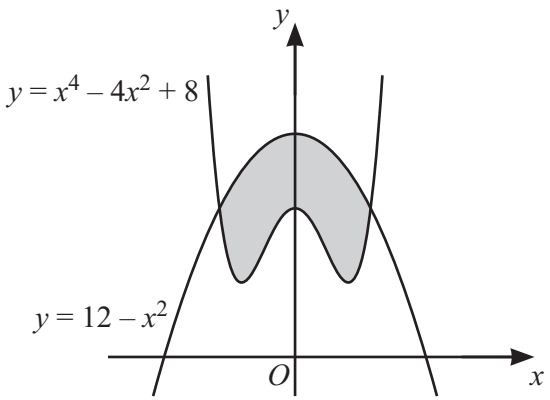
8



The diagram shows part of each of the curves $y = 12 - x^2$ and $y = x^4 - 4x^2 + 8$.

Find the area of the shaded region enclosed by the two curves. [7]

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9 Solve the following equations.

(a) $\log_5(5x-2) - \log_{25} x = \frac{1}{2}$ [5]

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