

Answer to question #50108

Find the least common denominator for these two rational expressions.

$$\frac{y^5}{y^2+4y+4} \quad \text{and} \quad \frac{-6}{y^2+6y+8}.$$

Firstly, to factor each denominator:

$$\frac{y^5}{y^2 + 4y + 4} = \frac{y^5}{(y + 2)^2}$$
$$\frac{-6}{y^2 + 6y + 8} = \frac{-6}{(y + 2)(y + 4)}$$

Thus the least common denominator is  $(y + 2)^2(y + 4)$  answer.

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