

PARTIAL FRACTIONS, QUADRATIC FACTORS

2 Reduce each rational function to its partial fractions.

(a) $\frac{3}{(x^2 + 1)(x^2 + 4)}$ (b) $\frac{8}{(x^2 + 1)(x^2 + 9)}$

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(a) $\frac{x^2 - 8x + 2}{(x - 2)(x^2 + 1)}$

(b) $\frac{x^2 + 4x + 1}{(x + 2)(x^2 + x + 1)}$

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(a)
$$\frac{x^2 + 9}{(x + 2)(x^2 - 2x + 5)}$$

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(d) $\frac{x^4 + 3x^2 - 8x}{x^3 - 8}$

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(e) $\frac{x^2 + 1}{x^3 - 1}$

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(f)
$$\frac{x + 3}{(2x + 1)(x^2 + 1)}$$