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Calculus Worksheet: Integration of Functions (1)

Use integration rules to evaluate the following integrals

1. $\int \frac{2}{(x-3)(x+2)} dx$

2. $\int \frac{2}{(x-3)\ln|x-3|} dx$

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3. $\int x \sin x dx$

4. $\int \tan(2x) dx$

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5.
$$\int \frac{x^2 + x}{(x^2 + 2)(x + 3)} dx$$

6.
$$\int e^{(\ln x + x^2)} dx$$

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7. $\int \frac{2}{x^2 - 2x + 3} dx$

8. $\int \frac{2}{\sqrt{1 - 2x - x^2}} dx$