Indefinite Integrals III - Worksheet

Compute the following indefinite integrals.

1.
$$\int \frac{dx}{x^2 - 5x - 6}$$

$$6. \int \frac{dx}{x^4 - 16}$$

2.
$$\int \frac{2x+3}{x^2-x-12} dx$$

7.
$$\int x^2 \sin(x) dx$$

$$3. \int \frac{x^2 dx}{\sqrt{1+x^2}}$$

8.
$$\int \frac{x}{\sqrt{4-x^2}} dx$$

4.
$$\int \frac{x^2 - x - 12}{x^2 + x - 12} dx$$

$$9. \int \frac{\sqrt{a^2 + x^2}}{x^2} dx$$

$$5. \int \sqrt{1+4x^2} dx$$

$$10. \int e^x \sqrt{4 - e^{2x}} dx$$

©2012 Shmoop University, Inc. All rights reserved. For classroom use only. Want to print this out for your classroom? Go for it. All other reproduction and distribution is prohibited.