Indefinite Integrals II - Worksheet

Compute the following indefinite integrals.

1.
$$\int \frac{x(6x+28)}{x^3+7x^2+5} dx$$

$$6. \int x^3 \sqrt{1+x^2} dx$$

$$2. \int \frac{\tan^2\left(\frac{1}{x}\right)}{x^2} dx$$

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

$$3. \int x \ln(x^2) dx$$

8.
$$\int x \tan^{-1} x dx$$

4.
$$\int x^3 \cos(x^2) dx$$

9.
$$\int \frac{dx}{x^2 - 4x + 8}$$

$$5. \int \sqrt{x} e^{\sqrt{x}} \frac{\cos(\sqrt{x})}{x} dx$$

$$10. \int x(\ln(\sqrt{x})^2 dx$$

©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.