**WORKSHEET XIX**

Integration of Trig functions

1. Integrate each of the following functions of sine x and cosine x:













2. Integrate each of the following functions of secant x and tangent x:

















3. Integrate each of the following functions by completing the square, if necessary.









4*.* By making an appropriate trig (or hyperbolic) substitution, convert each of the following integrals to trig integrals.









5. Using an appropriate trig identity, evaluate each of the following trigonometric integrals:









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