

## Answers to Worksheet 16 - U-Substitution

$$1) \frac{1}{4} = 0.25$$

$$2) -21$$

$$3) -4 \ln |\tan -2s| + C \quad 4) 4 \ln |5x^3 - 4| + C$$

$$5) 2e^{\cos 5t} + C$$

$$6) -2e^{4s^5 + 1} + C$$

$$7) \frac{1}{11}(5s+3)^{\frac{11}{5}} - \frac{1}{2}(5s+3)^{\frac{6}{5}} + C$$

$$8) -\frac{4}{27(3x+5)^3} + \frac{5}{9(3x+5)^4} + C$$

$$9) \frac{1}{6} \cdot \sin^6 4x + C \quad 10) \frac{1}{6}(-3 + \ln 5x)^6 + C$$

$$11) \frac{1}{5}(e^{5x} + 1)^5 + C \quad 12) \frac{1}{4}(5x^4 - 3)^4 + C$$