Solution to integral review

1. $-\dfrac{1}{9}\cos^3(3\theta)+C$

2. $\dfrac{1}{3\ln 4}4^{3t}+C$

3. $\dfrac{2}{3}x^{3/2}+\dfrac{1}{2}x^2+C$

4. $\dfrac{1}{2}x^2-\dfrac{1}{x}-\dfrac{1}{2x^2}+C$

5. $\dfrac{-1}{e^m}+C$

6. $\dfrac{1}{2}e^{2t}+2e^t+t+C$

7. $\dfrac{-1}{x+3}+C$

8. $\tan t+C$

9. $\dfrac{1}{3}\sin(w^3)+C$

10. $-\ln|3-\sec\alpha|+C$

11. $x-\ln|1+x|+C$

12. $\arcsin x+C$

13. $\dfrac{3}{16}(4v+7)^{4/3}+C$

14. $\dfrac{3}{2}\ln|1+2t|+C$

15. $-\dfrac{1}{2(\ln y)^2}+C$

16. $\arctan(e^x)+C$

17. $x+C$

18. $\alpha+C$