For each of these integrals, determine a strategy for evaluating. Don't evaluate them, just figure out which technique of integration will work, including what substitutions you will use.

1. $\int x\sqrt{9-x^2}\,dx$
2. $\int x^2\sqrt{9-x^2}\,dx$
3. $\int \sin^6 x\cos^2 x\,dx$
4. $\int \sin^5 x\cos^2 x\,dx$
5. $\int \dfrac{3}{x^2+5x+4}\,dx$
6. $\int \dfrac{3}{x^2+6x+9}\,dx$
7. $\int \arcsin x\,dx$
8. $\int \dfrac{\arctan x}{1+x^2}\,dx$
9. $\int x\sqrt{x+2}\,dx$
10. $\int (x+2)\sqrt{x}\,dx$
11. $\int \dfrac{e^x}{4+e^{2x}}\,dx$
12. $\int \dfrac{1}{x\ln x}\,dx$
13. $\int x^2\cos 5x\,dx$
14. $\int \dfrac{x^2+1}{x}\,dx$
15. $\int \dfrac{x+5}{x^2+4}\,dx$
16. $\int \tan^4 x\sec^2 x\,dx$