เฉลยแบบฝึกหัด 11.6

1. $\arcsin(\dfrac{x}{2}) + C$

2. $\dfrac{1}{4}\arctan(\dfrac{e^{2x}}{2}) + C$

3. $\dfrac{1}{8}\operatorname{arcsec}(\dfrac{x}{2}) + C, x > 1$

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

5. $\sqrt{25 + e^{2x}} + C$

6. $\dfrac{1}{10}\arctan(\dfrac{2}{5}x) + C$

7. $\dfrac{\sqrt{2}}{6}\arctan(\dfrac{3x}{\sqrt{2}}) + C$

8. $\dfrac{1}{8}\arctan(\dfrac{x^2}{4}) + C$

9. $\arctan(\sqrt{e^{2x} - 1}) + C$

10. $\dfrac{1}{2}\arcsin(x^2) + C$

11. $-\sqrt{4 - x^2} + 2\arcsin(\dfrac{x}{2}) + C$

12. $\arcsin(\dfrac{2}{3}x - 1) + C$

13. $-\dfrac{1}{3}\arctan(\dfrac{3}{\sqrt{4x^2 - 9}}) + C$

14. $\arcsin(x + 1) + C$