The only way to learn mathematics is to do mathematics

1. $\int \frac{1}{x^2-10x+34}dx$

2. $\int \frac{1}{9x^2+6x+10}dx$

3. $\int \frac{1}{1+x-x^2}dx$

4. $\int \frac{1}{3x^2+13x-10}dx$

5. $\int \frac{1}{\sqrt{x(1-2x)}}dx$

6. $\int \frac{1}{\sqrt{16-6x-x^2}}dx$

7. $\int \frac{1}{\sqrt{x^2-4x+2}}dx$

8. $\int \frac{1}{\sqrt{3x^2+5x+7}}dx$

9. $\int \frac{1}{\sqrt{5x^2-2x}}dx$

10. $\int \frac{1}{\sqrt{(x-a)(x-b)}}dx$

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ANSWERS-DPP-27

1. $\frac{1}{3}\tan^{-1}\left(\frac{x-5}{3}\right)+C$

2. $\frac{1}{9}\tan^{-1}\left(\frac{3x+1}{3}\right)+C$

3. $\frac{1}{\sqrt{5}}\log\left|\frac{\sqrt{5}-1+2x}{\sqrt{5}+1-2x}\right|+C$

4. $\frac{1}{17}\log\left|\frac{3x-2}{3(x+5)}\right|+C$

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

6. $\sin^{-1}\left(\frac{x+3}{5}\right)+C$

7. $\log\left|x-2+\sqrt{x^2-4x+2}\right|+C$

8. $\frac{1}{\sqrt{3}}\log\left|x+\frac{5}{6}+\sqrt{x^2+\frac{5}{3}x+\frac{7}{3}}\right|+C$

9. $\frac{1}{\sqrt{5}}\log\left|\frac{5x-1}{5}+\frac{\sqrt{5x^2-2x}}{\sqrt{5}}\right|+C$

10. $2\log\left|\sqrt{x-a}+\sqrt{x-b}\right|+C$