

A=1 point

1. $\int \frac{17-4x}{(x-2)(x+1)} dx$

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

3. $\int \frac{4}{(x-2)(2-3x)} dx$

4. $\int \frac{5x-7}{(x-1)(5x-3)} dx$

5. $\int \frac{18x-1}{(2x+1)(3x-1)} dx$

6. $\int \frac{3x-5}{x(1-x)} dx$

7. $\int \frac{7x-19}{x^2-2x-15} dx$

8. $\int \frac{x^2+14x+1}{(x+3)(x-5)(x+7)} dx$

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

10. $\int \frac{2x^2+x+8}{(x-2)(x+1)^2} dx$

B=2 points

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

2. $\int \frac{2}{(x-2)(x-4)} dx$

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

4. $\int \frac{1}{(x+1)(x+2)} dx$

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

6. $\int \frac{6}{x^2-2x-8} dx$

7. $\int \frac{17-5x}{(2x+3)(2-x)^2} dx$

8. $\int \frac{14x+1}{(1-x)(2x+1)} dx$

9. $\int \frac{4x^2-6x+5}{(2-x)(2x-1)^2} dx$

10. $\int \frac{x+2}{x(x-1)} dx$

C=3 points

1. $\int \frac{10x^2-23x+11}{(2-3x)(2x-1)^2} dx$

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

3. $\int \frac{8(x^2+1)}{(x-3)(x+1)^2} dx$

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

5. $\int \frac{1}{x^2-4} dx$

6. $\int \frac{4x^2-x+1}{(x-1)(2x-1)} dx$

7. $\int \frac{2}{x(x^2-1)} dx$

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

9. $\int \frac{1}{x^2-4} dx$

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

6. Dada - show working. Exact answers only.

D=4 points

1. $\int_0^1 \frac{3x}{(x+1)(x-2)} dx$

2. $\int_{\frac{1}{2}}^{\frac{3}{4}} \frac{14x+1}{(2x+1)(1-x)} dx$

3. $\int_0^{\frac{1}{2}} \frac{1}{(1-x)(1+x)^2} dx$

4. $\int_2^6 \frac{5x+3}{(2x-3)(x+2)} dx$

5. $\int_0^{\frac{1}{2}} \frac{3-5x}{(1-x)(2-3x)} dx$

6. $\int_{-1}^1 \frac{9+4x^2}{9-4x^2} dx$

7. $\int_0^1 \frac{18-4x-x^2}{(4-3x)(1+x)^2} dx$

8. $\int_2^3 \frac{x^2+x+2}{x^2+2x-3} dx$

9. $\int_0^{\frac{1}{4}} \frac{4}{(2x+1)(1-2x)} dx$

10. $\int_0^1 \frac{17-5x}{(3+2x)(2-x)^2} dx$

E=5 points

1. $\int_4^9 \frac{5x^2-8x+1}{2x(x-1)^2} dx$

2. $\int_0^1 \frac{x^2}{x^2-4} dx$

3. $\int_0^5 \frac{1}{(x+1)(x+2)(x+3)} dx$

4. $\int_0^1 \frac{10}{(x+1)(x+3)(2x+1)} dx$

5. $\int_0^4 \frac{13-2x}{(x+4)(2x+1)} dx$

6. $\int_2^6 \frac{2x^2-x+11}{(x+2)(2x-3)} dx$

7. $\int_0^2 \frac{25x+1}{(2x-1)(x+1)^2} dx$

8. $\int_5^8 \frac{2x^2}{x^2-16} dx$

9. $\int_2^3 \frac{x^2-3x+5}{(4-x)(1-x)^2} dx$

10. $\int_0^2 \frac{4x^3-12x^2-22x-3}{(4-x)(2x+1)} dx$