

**Integrals****Moderate****Integration By Parts**

1.  $\int x \cos(x) dx$

2.  $\int x \sin(x) dx$

3.  $\int 2x \sin(x) dx$

4.  $\int 2x \cos(x) dx$

5.  $\int 4x \sin(x) dx$

6.  $\int 3x \cos(x) dx$

7.  $\int (2x + 1) \sin(x) dx$

8.  $\int (x + 1) \sin(x) dx$

9.  $\int (x + 1) \cos(x) dx$

10.  $\int 15x \cos(x) dx$

**Answers****Integrals****Moderate****Integration By Parts**

1.  $x \sin(x) + \cos(x) + C$

2.  $-x \cos(x) + \sin(x) + C$

3.  $2(-x \cos(x) + \sin(x)) + C$

4.  $2(x \sin(x) + \cos(x)) + C$

5.  $4(-x \cos(x) + \sin(x)) + C$

6.  $3(x \sin(x) + \cos(x)) + C$

7.  $-\cos(x)(2x + 1) + 2\sin(x) + C$

8.  $-\cos(x)(x + 1) + \sin(x) + C$

9.  $\sin(x)(x + 1) + \cos(x) + C$

10.  $15(x \sin(x) + \cos(x)) + C$