$$ln[1]:=$$
 Integrate[3 x^2 Cos[x^3], x]

Out[2]=
$$\frac{1}{6} (5 + x^4)^{3/2}$$

Out[3]=
$$\frac{4}{15} \left(1 + \sqrt{x}\right)^{3/2} \left(-2 + 3\sqrt{x}\right)$$

$$ln[4]:=$$
 Integrate[Sqrt[x+2], {x, -1, 2}]

$$Out[4] = \frac{14}{3}$$

$$ln[5]:=$$
 Integrate[Cos[x+ π], {x, 0, π }]

$$ln[8]:= Integrate[x/(1+x^2)^2, \{x, 0, 2\}]$$

$$Out[6] = \frac{2}{5}$$

$$ln[7]:=$$
 Integrate[x/Sqrt[x+1], {x, 3, 7}]

Out[7]=
$$\frac{4}{3} \left(-1 + 5 \sqrt{2}\right)$$

$$ln[8]:= Integrate[(Tan[x])^3/(Cos[x])^2, \{x, 0, \pi/4\}]$$

Out[8]=
$$\frac{1}{4}$$

Out[5]=0