12.02

a) $\dfrac{x^4}{4}$

b) $-\dfrac{1}{2x^2}$

c) $\dfrac{2x^{3/2}}{3}$

d) $\dfrac{2x^{5/2}}{5}$

e) $2\sqrt{x}$

f) $-\dfrac{2}{\sqrt{x}}$