Soluções

Ficha 2-B

Primitivas imediatas

1. a)
$$5k^2\frac{x^7}{7} + C$$
;

b)
$$\frac{3x^{5/3}}{5} + \frac{7x^2}{2} + 8x + C;$$

c)
$$-\frac{1}{4x^4} - 4\sqrt{x} + C$$
;

d)
$$\frac{x^2}{2} - \frac{6}{\sqrt{x}} - \frac{4}{x} + C$$
;

e)
$$\frac{2}{3}ln|3x - 5| + C;$$

f)
$$\frac{1}{3}(2x+3)^{3/2} + C$$
.

2. a)
$$-e^{\cos^2(x)} + C$$
;

$$b)\frac{2a}{a-x} + C;$$

c)
$$arcsen(e^x) + C$$
;

$$d)ln(\sqrt{x^2+1}) - arctg(x) + C;$$

$$e)\frac{1}{2}argch(\frac{x^2}{2}) + C;$$

f)
$$-\frac{sen^{-2}(7x)}{14} + C;$$

g)
$$-\frac{1}{3}(4-x^2)^{3/2}+C$$
;

h)
$$\frac{2}{3}\sqrt{x^3+3x^2-4}+C$$
;

i)
$$\frac{1}{15}(x^3+e)^5+C$$
;

j)
$$\frac{x}{2} - \frac{sen(8x)}{16} + C$$
.

3. t = 4 segundos; s = 40 metros.