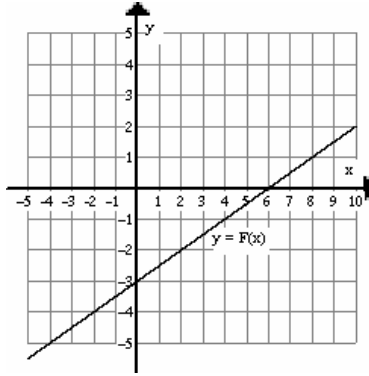
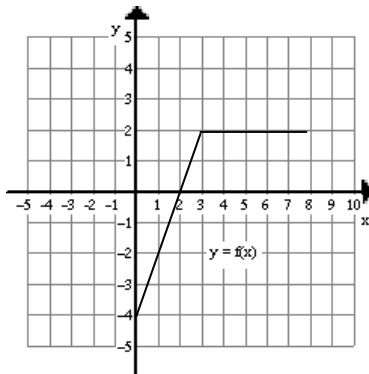


9. Integraler Ma D

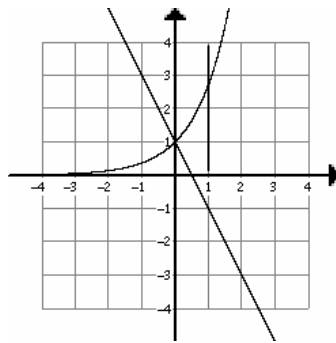
1. Beräkna $\int_2^8 f(x)dx$



2. Beräkna $\int_0^5 f(x)dx$



3. Beräkna arean mellan $y = e^x$, $y = 1 - 2x$ och $x = 1$

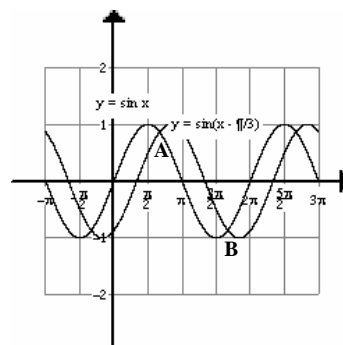


4. Beräkna

a) $\int_0^t \cos(tx)dx$ b) $\int_0^x \sin(tx)dt$ c) $\int_0^x \sin(t-x)dt$

d) $\int_0^t \cos(t-x)dx$ e) $\int_0^{\frac{\pi}{4}} 4 \sin(2x) \cos(2x)dx$

5. Beräkna den inneslutna arean mellan kurvorna $y = \sin x$ och $y = \sin(x - \pi/3)$
Skärningarna är A och B



Svar 9. Integraler Ma D

1. 3

2. 1

3. $e - 1 \approx 1,718$

4. a) $\frac{\sin t^2}{t}$ b) $-\frac{\cos x^2}{x} + \frac{1}{x}$ c) $\cos x - 1$ d) $\sin t$ e) 1

5. $2ae$