1. (deforindef:set1)

For each of the following, state whether the object is a function or a number. If it is a function, state what variable it is a function of.

- (a) $\int_1^x e^{\cos(t)} dt$
- (b) $\int_1^3 \sin(s) ds$
- (c) $\int \ln(x) dx$
- (d) $\int_t^{t^3} \ln(\cos(x)) dx$

Solution:

- (a) This is a function of x.
- (b) This is a number.
- (c) This is a function of x (one of many really).
- (d) This is a function of t.

2. (deforindef:set2)

For each of the following, state whether the object is a function or a number. If it is a function, state what variable it is a function of.

- (a) $\int_e^x e^{\sec^2(\ln(t))} dt$
- (b) $\int \arcsin(x) dx$
- (c) $\int_1^3 \arctan(s) ds$
- (d) $\int_0^{\pi t} \arccos(x)) dx$

Solution:

- (a) This is a function of x.
- (b) This is a function of x (one of many really).
- (c) This is a number.
- (d) This is a function of t.