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a) Boston is a capital of Massachusetts.

Proposition - Because Boston is the capital of Massachusetts.

b) Miami is the capital of Florida.

False - the capital of Florida is (Tallahassee).

Proposition

c) $2 + 3 = 5$

Proposition - $2 + 3 = 5$

d) $5 + 7 = 10$

False - $5 + 7$ is equal to 12

Proposition

e) $x + 2 = 11$

not proposition - variable x is will depends of the value of truth on the value of x .

f) a.) true

e.) not a proposition

b.) false

c.) true

d.) false