Please put away all electronic devices. This sheet will be collected but not assessed. The professor will look at the second page but will ignore the first page.

**Gratitude by mental elimination** (adapted from PositivePsychology.com). According to Koo, Algoe, Wilson, & Gilbert (2008), a person’s emotional state is improved to a greater extent by mentally removing positive events than it is by actively thinking about the presence of those events. Think about something good in your life right now and then take a moment to imagine what life would be like without that one good thing. Write down the ways in which your life would be different without it.

Write the binary number 1101.01 as a base-10 number.

Answer:

Write the base-10 number 307 in binary.

Answer:

Suppose a floating point number has sign s = 0, exponent c = 1026, and mantissa f = 9/16 (here, I’m expressing these quantities not with bits, but rather, for your convenience, as base-10 numbers). Write this floating point number as a base-10 number.

Definition: