

Answers Spring 2010

1. c
2. a
3. b
4. e
5. c
6. a
7. b
8. f
9. d
10. g
11. I don't really like this problem, because the answer depends on the angle. Tank A will initially drain faster since the area is larger, but that does not mean it will empty first.
12. Answer not given. It is a PI controller if you look at the final transfer function.
13.
$$\frac{31.6s}{\left(\frac{s}{500} + 1\right)\left(\frac{s}{5} + 1\right)}$$
14. Not provided
15. Not provided