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Chapter 4

4.1

- a) iii
- b) iii
- c) v
- d) v

4.2

- a) 5
- b) 10
- c) $Y(s) = \frac{10}{s(10s+1)}$
From the Final Value Theorem, $y(t) = 10$ when $t \rightarrow \infty$
- d) $y(t) = 10(1 - e^{-t/10})$, then $y(10) = 6.32 = 63.2\%$ of the final value.

e) $Y(s) = \frac{5}{(10s+1)} \frac{(1 - e^{-s})}{s}$
From the Final Value Theorem, $y(t) = 0$ when $t \rightarrow \infty$

f) $Y(s) = \frac{5}{(10s+1)} 1$
From the Final Value Theorem, $y(t) = 0$ when $t \rightarrow \infty$

g) $Y(s) = \frac{5}{(10s+1)} \frac{6}{(s^2+9)}$ then

$$y(t) = 0.33e^{-0.1t} - 0.33\cos(3t) + 0.011\sin(3t)$$

The sinusoidal input produces a sinusoidal output and $y(t)$ does not have a limit when $t \rightarrow \infty$.

*Solution Manual for Process Dynamics and Control, 2nd edition,
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