Week 7 Assignment

1. Write the following.

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<th>P</th>
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<tr>
<td>2</td>
<td>3</td>
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2. Draw a schematic diagram of a feedback control system using a PID controller.

3. How is the advantage of integral control?

4. What is the purpose of using an integral controller?

5. When is it necessary to use an integral controller?

6. What is a proportional-derivative (PD) controller?

7. What is the characteristic of a PD controller?

8. How is the dynamic response of a proportional-derivative controller affected by the derivative gain?

9. What is a proportional-integral-derivative (PID) controller?

10. How does a PID controller function?

11. What are the benefits of using a PID controller?

12. How is the dynamic response of a PID controller affected by the integral gain?