

## Joshua Gould - Homework Chapter 14 - 2

### Contents

---

- [14-2](#)

### 14-2

---

How many pulses must be coherently integrated to produce an integration gain sufficient to increase the detection range for a given target from 5 to 50 miles?

```
clc
t1 = 5; %miles
t2 = 50; %miles
%difference in miles
td = t2-t1; %miles
%gain required
tg = t2/t1;

Igain = t2 / t1;

fprintf('Integration gain = %d',round(Igain))
```

Integration gain = 10