Appendix

```
Jadon Fowler, STA 570 Section 1
    2023/02/20
  1) a)
pnorm(230, 222, 5, lower.tail=F)
## [1] 0.05479929
  1) e)
pnorm(230, 222, 2.041241, lower.tail=F)
## [1] 4.442455e-05
  2) a)
pnorm(9, 10, 1.5)
## [1] 0.2524925
  2) b)
pnorm(9, 10, sqrt((1.5^2) / 5))
## [1] 0.06801856
  3) a)
pnorm(296, 298, 3)
## [1] 0.2524925
  3) b) n=6
pnorm(296, 298, sqrt(3/2))
## [1] 0.05123522
  3) c)
pnorm(299, 298, 3) - pnorm(297, 298, 3)
## [1] 0.2611173
  3) d)
```

```
pnorm(299, 298, sqrt(9/10)) - pnorm(297, 298, sqrt(9/10))
## [1] 0.7081595
3) e)
pnorm(298, 300, 3)
```

[1] 0.2524925