

ARE 213 PS 0

Aaron Watt

TOTAL POINTS

60 / 70

QUESTION 1

1 25 pts

1.1 a 5 / 5

✓ - 0 pts Correct

Nice

1.2 b 5 / 5

✓ - 0 pts Correct

D is Bernoulli and variance is $p(1-p)$, but answer is essentially correct.

1.3 C 0 / 5

- 0 pts Correct

- 5 Point adjustment

1.4 d 5 / 5

✓ - 0 pts Correct

good

1.5 e 5 / 5

✓ - 0 pts Correct

Good

QUESTION 2

2 15 pts

2.1 a 4 / 5

- 0 pts Correct

- 1 Point adjustment

Proof that reg estimates ATE missing

2.2 b 2 / 5

- 0 pts Correct

- 3 Point adjustment

Should be that t-test is correct size under null. Question is about $P(\text{test rejects} | H_0)$, rather than significance of the estimate of the coefficient for \tilde{Y}^D

2.3 C 5 / 5

✓ - 0 pts Correct

Good

QUESTION 3

3 30 pts

3.1 a 5 / 5

✓ - 0 pts Correct

Good

3.2 b 5 / 5

✓ - 0 pts Correct

Difference in expectations is regression estimate, not ATE but otherwise good

3.3 C 5 / 5

✓ - 0 pts Correct

Good

3.4 d 4 / 5

- 0 pts Correct

- 1 Point adjustment

Close. Expectation should have been 1/2 times inverse mills ratio of 0, but the intuition is good and correct.

3.5 e 5 / 5

✓ - 0 pts Correct

Good

3.6 f 5 / 5

✓ - 0 pts Correct

Good

1.1 a 5 / 5

✓ - 0 pts Correct

Nice

1.2 b 5 / 5

✓ - 0 pts Correct

💬 D is Bernoulli and variance is $p(1-p)$, but answer is essentially correct.

1.3 C 0 / 5

- 0 pts Correct

- 5 Point adjustment

1.4 d 5 / 5

✓ - 0 pts Correct

💬 good

1.5 e 5 / 5

✓ - 0 pts Correct

Good

2.1 a 4 / 5

- 0 pts Correct

- 1 Point adjustment

Proof that reg estimates ATE missing

2.2 b 2 / 5

- 0 pts Correct

- 3 Point adjustment

- Should be that t-test is correct size under null. Question is about $P(\text{test rejects} | H_0)$, rather than significance of the estimate of the coefficient for \tilde{Y}^D

2.3 C 5 / 5

✓ - 0 pts Correct

Good

3.1 a 5 / 5

✓ - 0 pts Correct

Good

3.2 b 5 / 5

✓ - 0 pts Correct

💬 Difference in expectations is regression estimate, not ATE but otherwise good

3.3 C 5 / 5

✓ - 0 pts Correct

Good

3.4 d 4 / 5

- 0 pts Correct

- 1 Point adjustment

Close. Expectation should have been $\frac{1}{2}$ times inverse mills ratio of 0, but the intuition is good and correct.

3.5 e 5 / 5

✓ - 0 pts Correct

Good

3.6 f 5 / 5

✓ - 0 pts Correct

Good