

# COS 340 / Fall 2020 / Problem Set 1 Grade Report

**Name:** William Svoboda

**Precept/Preceptor:** P03/Uma Girish

Problems	Max Points	Points
Problem 1	20	20
Problem 2	20	17
Problem 3	20	19
Problem 4	20	10
Problem 5	20	18
Problem 6	20	20
<b>TOTAL</b>	<b>120</b>	<b>104</b>

# Deductions & Comments

**ps1\_exercise1.pdf, overall:** Excellent work!

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**ps1\_exercise2.pdf, equation 6:** Divides by  $1 + a$ , which is equivalent to dividing by 0 when  $a = -1$ . (-3)

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**ps1\_exercise3.pdf, overall:** Incorrectly identifies the second case as there being two people with no friends, as opposed to there being nobody with 0 friends (-1).

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**ps1\_exercise4.pdf, overall:** No mention of number of possible values (-8).

**ps1\_exercise4.pdf, overall:** No application of pigeonhole principle (-2).

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**ps1\_exercise5.pdf, overall:** Uses pigeonhole to prove why picking 25 would not satisfy the condition of the problem, instead of directly showing it (-2).

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**ps1\_exercise6.pdf, overall:** Excellent work!