- 1. Use of cell phones is NOT allowed.
- 2. Answers without supporting work will NOT be given credit.
- 3. You have 18 minutes to complete this quiz.

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Serial:

1. Solve the DE

$$y'' - xy' + 2y = 0$$

2. [Bonus] The sum of the indicial roots of the regular singularity x=0 of the DE

$$3xy'' + (2-x)y' - y = 0$$

is

- (a) $\frac{1}{2}$
- (b) 2
- (c) $\frac{1}{3}$
- (d) $\frac{-2}{3}$

3. [Bonus] The point x = 0 of the DE

$$xy'' + (\sin x)y = 0$$

is

- (a) an ordinary point
- (b) a regular singular point
- (c) an irregular singular point
- (d) we can not determine

Reason:

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