

Name:

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MATH 1342
Quiz 4.2

Determine if each of the following represents a valid Probability Distribution for a Discrete Random Variable. Justify your conclusion.

(1) Random variable 1:

x	2	3	4	5	6	7
$p(x)$	0.2	0.1	0.05	0.2	0.15	0.2

(2) Random variable 2:

x	a	b	c	d	e	f
$p(x)$	0.2	0.1	0.15	0.25	0.15	0.2

(3) Random variable 3:

x	<i>Red</i>	<i>Orange</i>	<i>Yellow</i>	<i>Green</i>	<i>Blue</i>	<i>Purple</i>
$p(x)$	0.2	-0.1	0.4	0.2	0.1	0.2