

PRACTICE MIDTERM I

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1. Find the equation of the line that passes through the point $(1, -2)$ that has a slope of -3 . $y = (-3)(x) + b$ $-2 = (-3)(1) + b$ $b = -3 + 1$
 2. For each of the following pairs of lines determine whether the lines are parallel, perpendicular, or neither; the options are obviously mutually exclusive. No need to show work.

Pair of lines	Parallel	Perpendicular	Neither
$y = -x + 4$ vs. $y = -x - 4$	✓		
$y = -x + 4$ vs. $y = x - 4$		✓	
$y = 2x + 4$ vs. $y = x/2 - 4$			✓
$y = -x/2 + 4$ vs. $y = 3x + 5$			✓
$y = 3x + 4$ vs. $y = 4x + 3$			✓

3. Consider the line: $y = ax - 1$, where a is some unknown number. If we know that the point $(1, 0)$ was on the line then which of the following points would also be on the line.

- (a) $(0, 0)$.
 (b) $(2, 1)$.
 (c) $(0, 1)$.
 (d) $(0, -1)$.

$$0 = a(1) - 1$$

$$1 = a(1) \quad y = x - 1$$

$$a = 1$$

- (e) both (b) and (d).

4. Find the area under the (standard) normal curve

- (a) between $z = -0.5$ and $z = 1.0$. $1 - (-.3085) + (.1587) = .3322$
 (b) to the right of 1.5 . $.0643$
 (c) to the left of -1.5 . $.0643$
 (d) outside of the interval $(-3, 3)$. $.0044 + .0044 = .0088$

5. You are given the data set: 2, -7, -1, 0, 10. Compute:

- (a) the average of the data. $\frac{2 + (-7) + (-1) + 0 + 10}{5} = \frac{4}{5}$

- (b) the standard deviation of the data.

- (c) the median of the data. $\sqrt{\frac{(2-3)^2}{5-1}}$

-7, -1, 0, 2, 10

Practice Test Midterm 1 Answer Key

Nancy A. Humbach



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