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MATH 1010-3A ${ }^{1}$ : QUIZ 4
September 16, 2010
TO RECEIVE CREDIT FOR YOUR SOLUTION ON PROBLEM 2 YOU MUST SHOW YOUR WORK.

1. By clearly circling either TRUE or FALSE determine if each of the following statements is valid.
(a) If $A=\{0,1,2,3\}$ and $B=\{-2,0,2,4\}$, the set of pairs $\{(0,0),(1,0),(0,2),(3,4)\}$ represents a function from $A$ to $B$ :

> TRUE

## FALSE

(b) The graph of $y=x+2$ has 2 as an $y$-intercept.
TRUE

FALSE
(c) The distance between the points $(-2,-3)$ and $(3,2)$ is $\sqrt{50}$.
TRUE FALSE
(d) The point $(-2,-10)$ lies in the first quadrant of the xy-plane.
TRUE

FALSE
(e) Both 3 and -3 are $x$-intercepts of the graph of $y=x^{2}-1$.

TRUE
FALSE
2. Find the equation of the line with slope -2 which passes through the point $(0,3)$. Write your answer in slope-intercept form and circle it clearly. Then sketch its graph.

Solution. We are given the slope ( -2 ), and also the $y$-intercept (3). So, in slope-intercept form we have

$$
y=-2 x+3 .
$$

The graph is a line which crosses the $y$-axis at 3 and the $x$-axis at $3 / 2$.

[^0]$\qquad$

## MATH 1010-3B²: QUIZ 4 <br> September 16, 2010

## TO RECEIVE CREDIT FOR YOUR SOLUTION ON PROBLEM 1 YOU MUST SHOW YOUR WORK.

1. Find the equation of the line with slope 2 which passes through the point $(0,-3)$. Write your answer in slope-intercept form and circle it clearly. Then sketch its graph.

Solution. We are given the slope (2), and also the y-intercept ( -3 ). So, in slope-intercept form we have

$$
y=2 x-3 .
$$

The graph is a line which crosses the $y$-axis at -3 and the $x$-axis at $3 / 2$.
2. By clearly circling either TRUE or FALSE determine if each of the following statements is valid.
(a) If $A=\{0,1,2,3\}$ and $B=\{-2,0,2,4\}$, the set of pairs $\{(0,0),(1,0),(2,0),(3,4)\}$ represents a function from $A$ to $B$ :

> | TRUE | FALSE |
| :--- | :--- |

(b) The graph of $y=x+2$ has 2 as an $x$-intercept.

TRUE
(c) The distance between the points $(-2,-3)$ and $(3,2)$ is 50 .

TRUE
FALSE
(d) The point $(-2,-10)$ lies in the third quadrant of the xy-plane.
TRUE
FALSE
(e) Both 3 and -3 are $x$-intercepts of the graph of $y=x^{2}-9$.

> TRUE

FALSE

[^1]
[^0]:    ${ }^{1}$ Version C is identical to version A except that the order of the problems is switched.

[^1]:    ${ }^{2}$ Version D is identical to Version A except the order of the problems is switched.

