

7.0 - Prerequisite Learning

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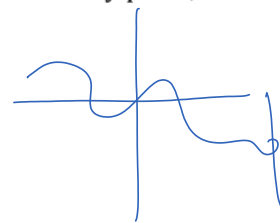
Chapter 7: Prerequisite Learning

Terms

- X-intercept
 - Where the graph crosses the x-axis
- Y-intercept
 - Where the graph crosses the y-axis
- Linear Factors
 - Single variable w/ degree 1 ex. $(x-3)$
- Slope-intercept form
 - $y = mx + b$
- Function
 - a relation between two variables where the x variable only has one possible y-value

Skills

- How to evaluate a function $f(x)$ by subbing in for x.
 - Evaluate $f(x) = 2x^2 - 3x + 4$ when $x=3$. $f(3) = 2(3)^2 - 3(3) + 4$
 $= 18 - 9 + 4$
 $= 13$
- Vertical Line Test
 - Glide a vertical line over the graph. If it crosses twice in any place, it is not a function. ~~Tests for a function~~
- How to tell if a relation is a function
 - Cannot have repeat x-values
 - Must be one-to-one or one-to-many
 - Cannot be many-to-one
- Solving a equation with one variable
- Graphing a linear relation
- Factoring
 - See practice sheet
- Factoring to solve an equation
 - Get everything on one side and 0 on the other side.
 - Factor.
 - Set each factor = 0. Solve.



$$p^2 - 4p + 4 = -4 + 4$$

$$p^2 - 4p + 4 = 0$$

$$(p-2)(p-2) = 0$$

$$p-2=0$$

$$p=2 \checkmark$$

$$p=2$$

all
of
7.0