

Precalculus - Worksheet

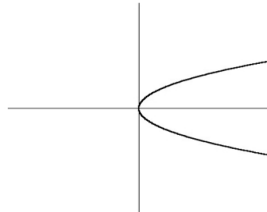
Section 1.2

Name: _____

1. State the domain and the range. Is the relation a function?
 $\{(-3,3), (-3,2), (-3,1), (-3,0)\}$

1. _____

2. Is the relation a function?



2. _____

3. If $f(x) = \frac{x^2 - 4x + 5}{x + 7}$, find $f(-3)$.

3. _____

Graph each equation or inequality. (Use the graphing grids provided.)

4. $-6y + 4x = 12$

5. $y = -3$

6. $y = \lfloor x + 2 \rfloor$

7. $y = \begin{cases} -x - 2, & \text{if } x < 1 \\ 4, & \text{if } x \geq 1 \end{cases}$

8. $y = -3|x|$

9. $x - 2y > -2$

4. See Graph

5. See Graph

6. See Graph

7. See Graph

8. See Graph

9. See Graph

10. Is $x + \frac{1}{2}y = 5\frac{1}{2}$ linear or not linear?

10. _____

11. Write $3x = 5 - \frac{3}{4}y$ in standard form.

11. _____

12. Determine the slope of the line passing through $(-3,-1)$ and $(5,-1)$.

12. _____

13. Determine the slope of the line passing through $(-4,7)$ and $(-9,-1)$.

13. _____

14. Find the x - and y - intercept for the line $y = -4x + 5$.

14. _____

Find the slope-intercept form or point-slope form of an equation for each graph described.

15. slope = 2, pass through $(3,-1)$

15. _____