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|---|--------------------------|---------------------------------|
| 1a. $f(-6) = 3$ $f(-10) = -8$ | 2a. $y = 2$ | 3a. Min $y = -9$ Max $y = 5$ |
| $f(2) = -2$ $f(-3) = -5$ | 2b. $y = 0$ | 3b. $(-7, 6]$ |
| 1b. $x = -6$ | 2c. ∞ | 3c. $[-9, 5]$ |
| $x = 0.5, 2.5, -3.25, -9$ | 2d. $(-\infty, 0]$ | 3d. $x = 3$ |
| 1c. $x = -8, -4$ | 2e. $(-\infty, 2]$ | 3e. $y = -5$ |
| 1d. $D = [-10, 4)$ $R = [-8, 3]$ | 2f. $(-4, 0)$ & $(0, 0)$ | 3f. $(-4, 6)$ |
| 1e. Min $y = -8$ Max $y = 3$ | 2g. $(-\infty, -2)$ | 3g. $(-7, -4)$ |
| 1f. 3 | 2h. $(-2, 0)$ | 3h. $(3, 6)$ |
| 1g. Increasing $(-10, -6)$ Decreasing $(-6, -3)$ | 2i. $(-4, 0)$ | 3i. $(-7, 3)$ |
| 1h. Max $y = -2$ Min $y = -5$ | 2j. $(-\infty, -4)$ | |
| 1i. Negative $(-4, 4)$ Positive $(-6, -4)$ | | |

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4a. $[0, 10]$ 5a. $[0, 10]$ 4b. $[0, 7]$ 5b. $[1, 8]$

4c. 0

5c. $y = 5$

4d. 0

5d. None

4e. 0

5e. $y = -1$

4f. 7

5f. $y = 8$ 4g. $(5, 2.5)$ 5g. $(6, 2)$ or $(10, 2)$ 4h. $(3, 4.5)$ 5h. $(0, 5)$ or $(4, 2)$ 4i. $(0, 3)$ OR $(5, 8)$ 5i. $(2, 4)$ or $(6, 8)$ 4j. $(3, 5)$ OR $(8, 10)$ 5j. $(0, 2)$ or $(4, 6)$ or $(8, 10)$ 4k. $(0, 10]$ 5k. $(0, 10)$ or $[0, 10]$

4l. Does Not Exist

5l. None

4m. $f(1) = .5$ 5m. $x = 0.25, 3.75, 4.75, 6.5, 9.5$

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