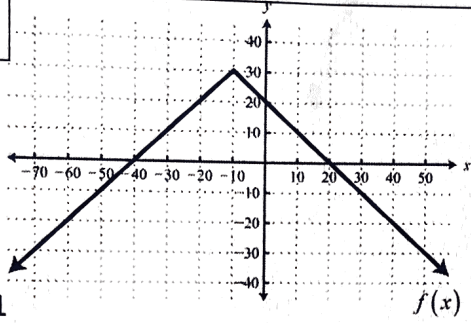


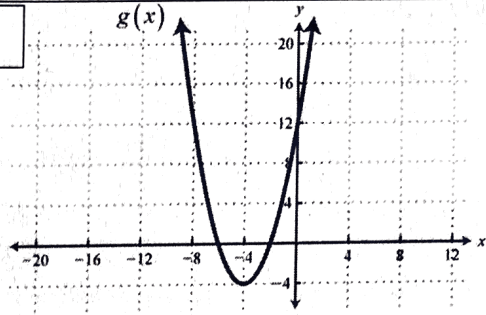
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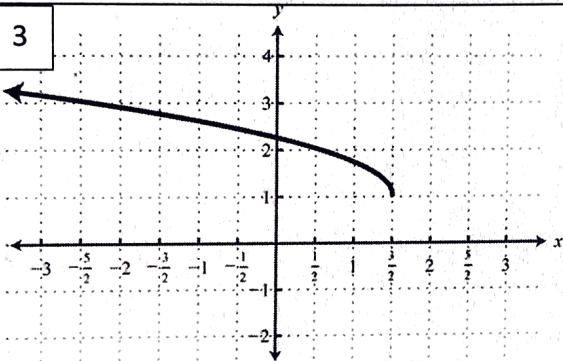
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 $f(x)$

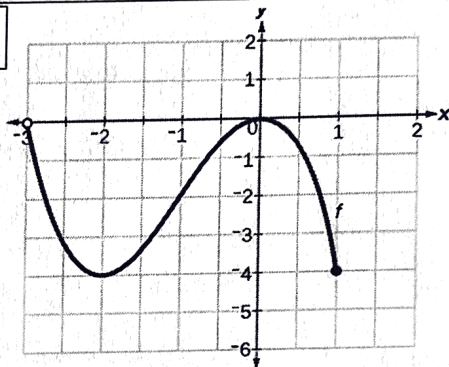
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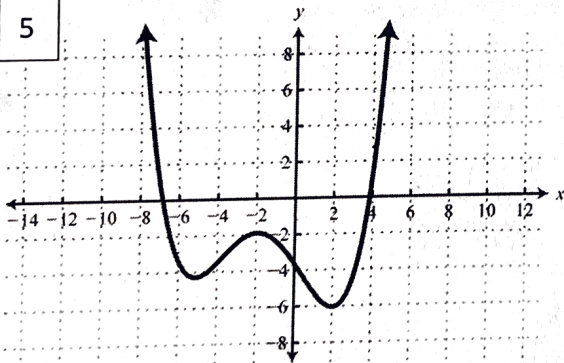
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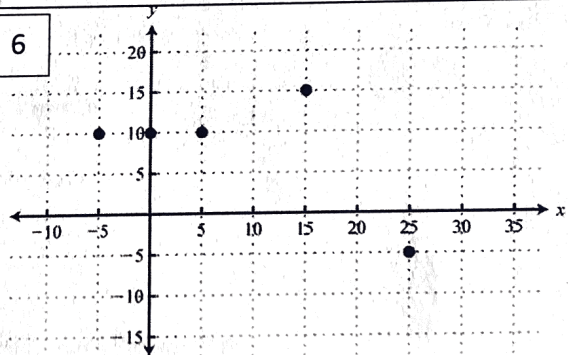
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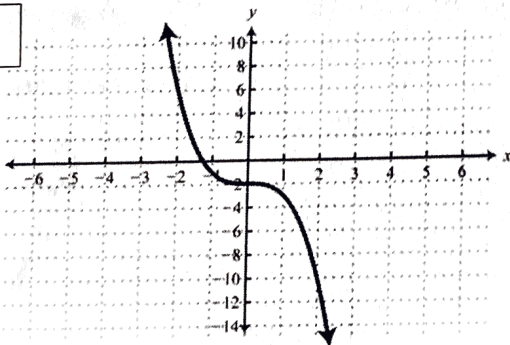
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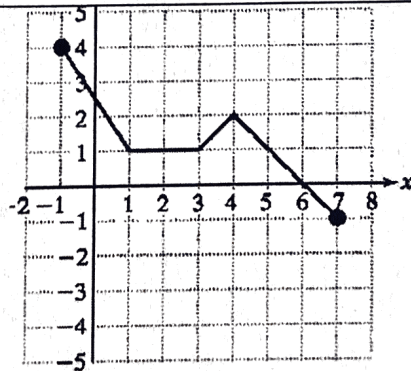
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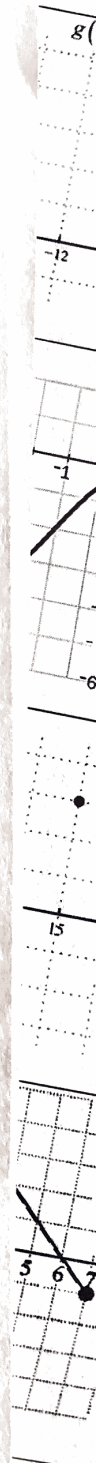
7



8



<p>Graph #1</p> <p>What type of function is it?</p> <p>Domain:</p> <p>Range:</p> <p>Increasing Interval(s):</p> <p>Decreasing Interval(s):</p> <p>Maximum:</p> <p>X Intercept(s):</p> <p>Y Intercept(s):</p>	<p>Graph #2</p> <p>What type of function is it?</p> <p>What is the shape of the graph called?</p> <p>Domain:</p> <p>Range:</p> <p>Increasing Interval(s):</p> <p>Decreasing Interval(s):</p> <p>Minimum:</p> <p>X Intercept(s):</p> <p>Y Intercept(s):</p>
<p>Graph #3</p> <p>What type of function is it?</p> <p>Domain:</p> <p>Range:</p> <p>Increasing Interval(s):</p> <p>Decreasing Interval(s):</p> <p>Minimum:</p> <p>X Intercept(s):</p> <p>Y Intercept(s):</p>	<p>Graph #4</p> <p>Domain:</p> <p>Range:</p> <p>Increasing Interval(s):</p> <p>Decreasing Interval(s):</p> <p>Minimum:</p> <p>Maximum:</p> <p>X Intercept(s):</p> <p>Y Intercept(s):</p>



<p>Graph #5</p> <p>Domain:</p> <p>Range:</p> <p>Increasing Interval(s):</p> <p>Decreasing Interval(s):</p> <p>Minimum:</p> <p>X Intercept(s):</p> <p>Y Intercept(s):</p>	<p>Graph #6</p> <p>Domain:</p> <p>Range:</p> <p>Why do you not use an inequality for the domain or range of this graph?</p>
<p>Graph #7</p> <p>Domain:</p> <p>Range:</p> <p>Increasing Interval(s):</p> <p>Decreasing Interval(s):</p> <p>X Intercept(s):</p> <p>Y Intercept(s):</p>	<p>Graph #8</p> <p>Domain:</p> <p>Range:</p> <p>Increasing Interval(s):</p> <p>Decreasing Interval(s):</p> <p>Constant Interval(s):</p> <p>Minimum:</p> <p>Maximum:</p> <p>X Intercept(s):</p> <p>Y Intercept(s):</p>

Key

Graph #1

What type of function is it?

Absolute Value

Domain: all real numbers
 $-\infty < x < \infty$

Range: $y \leq 30$

Increasing Interval(s): $x < -10$

Decreasing Interval(s): $x > -10$

Maximum: 30

X Intercept(s): -40 and 20

Y Intercept(s): 20

Graph #2

What type of function is it? Quadratic

What is the shape of the graph called?

Parabola

Domain: all real numbers $-\infty < x < \infty$

Range: $y \geq -4$

Increasing Interval(s): $x > -4$

Decreasing Interval(s): $x < -4$

Minimum: -4

X Intercept(s): -6 and -2

Y Intercept(s): 12

Graph #3

What type of function is it? Square root

Domain: $x \leq \frac{3}{2}$

Range: $y \geq 1$

Increasing Interval(s): None

Decreasing Interval(s): $x < \frac{3}{2}$

Minimum: 1

X Intercept(s): None

Y Intercept(s): 2.1

Graph #4

Domain: $-3 < x \leq 1$

Range: $-4 \leq y \leq 0$

Increasing Interval(s): $-2 < x < 0$

Decreasing Interval(s): $-3 < x < -2$
 $0 < x < 1$

Minimum: -4

Maximum: 0

X Intercept(s): 0

Y Intercept(s): 0

Graph #5

Domain: all real numbers
 $-\infty < x < \infty$

Range: $y \geq -6$

Increasing Interval(s): $-5 < x < -2$
 $x > 2$

Decreasing Interval(s): $x < -5$
 $-2 < x < 2$

Minimum: -6

X Intercept(s): -7 and 4

Y Intercept(s): -4

Graph #6

Domain: $\{-5, 0, 5, 15, 25\}$

Range: $\{-5, 10, 15\}$

Why do you not use an inequality for the domain or range of this graph?

It is a discrete graph.
The points are not connected, therefore the domain and range should be a list of values.

Graph #7

Domain: all real numbers
 $-\infty < x < \infty$

Range: all real numbers
 $-\infty < y < \infty$

Increasing Interval(s): None

Decreasing Interval(s): all real numbers
 $-\infty < x < \infty$

X Intercept(s): ≈ -1.2

Y Intercept(s): -2

Graph #8

Domain: $-1 \leq x \leq 7$

Range: $-1 \leq y \leq 4$

Increasing Interval(s): $3 < x < 4$

Decreasing Interval(s): $-1 < x < 1$
 $4 < x < 7$

Constant Interval(s): $1 < x < 3$

Minimum: -1

Maximum: 4

X Intercept(s): 6

Y Intercept(s): 2.5