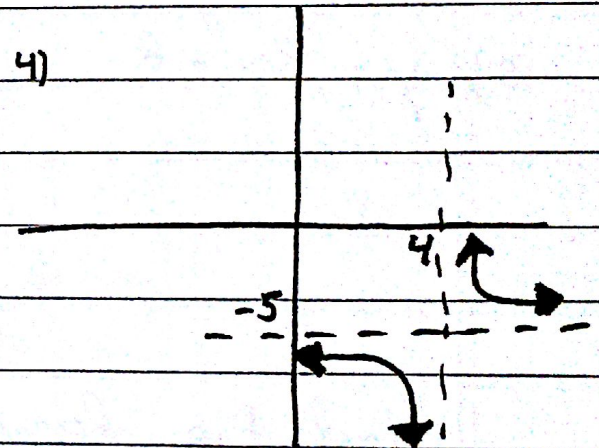
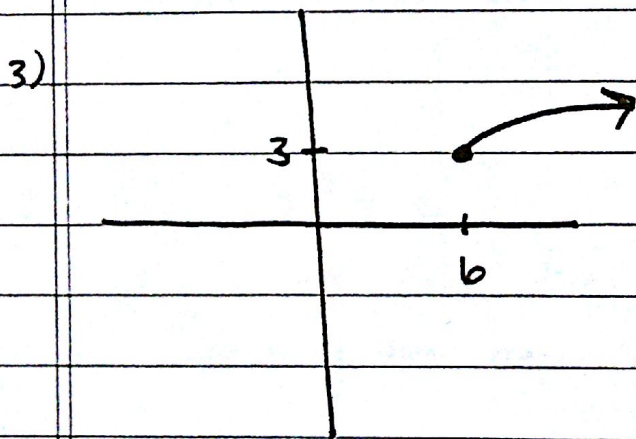
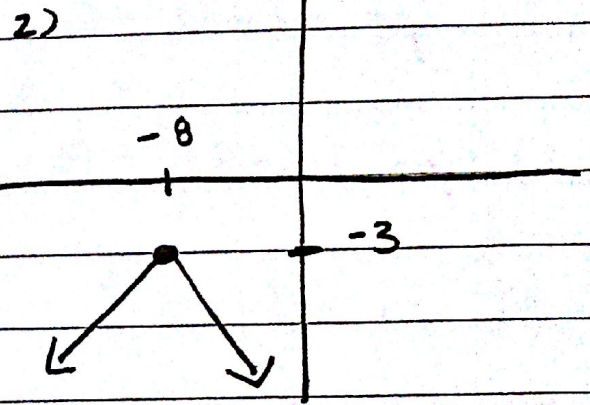
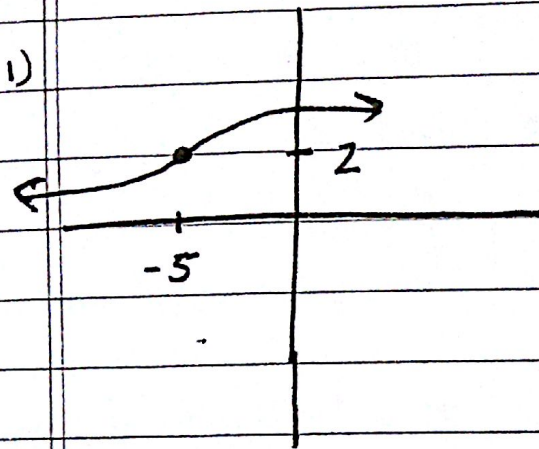


State the domain & Range



Composition

1) $f(x) = 3x + 4$
 $g(x) = x + 1$
 Find $f(g(x))$

2) $h(x) = 4(x + 2) - 8$
 $k(x) = 3x$
 Find $h(k(x))$

2 Graphing

1) $y = -\sqrt{x+2} - 5$

2) $y = (x+5)^3 - 10$

3) $y = -(x-3)^2$

4) $y = \sqrt[3]{x} + 1$

5) $y = 3x + 8$

4 Find the domain.

1) $y = \sqrt{4x-7} + 2$

2) $y = \frac{1}{x-4} + 7$

3) $y = (x+8)^2 - 5$

4) $y = 4\sqrt{5x+2} - 8$

3

Evaluate

1) $f(x) = 4x + 8$

plug in $-x$ into the function for x
what is the new function?

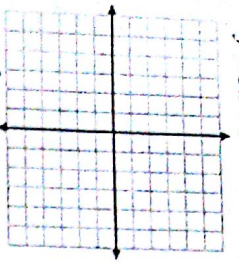
2) $f(x) = 2x^2 + 4$

plug in $-x$ into the function for x
what is the new function?

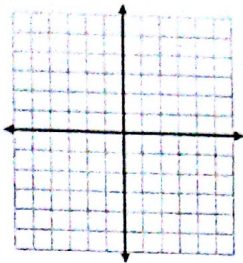
3) $f(x) = x^3 + x$

plug in $-x$ into the function for x
what is the new function?

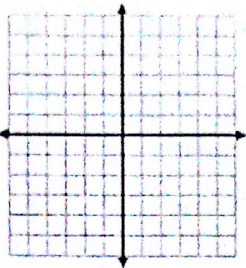
$y = 3x + 6$



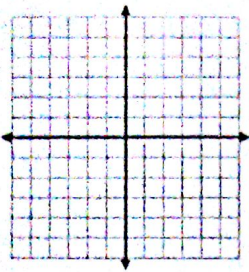
$y = \frac{1}{x} - 7$



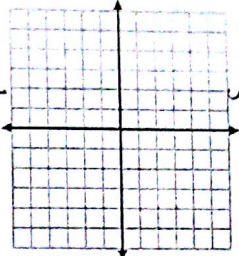
$y = -\frac{1}{x}$



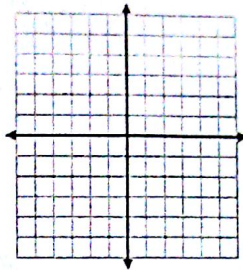
$y = -\sqrt{x+3} - 7$



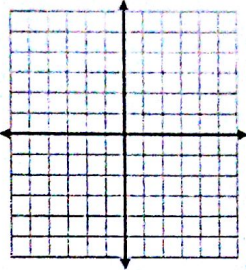
$y = -\frac{3}{5}x - 7$



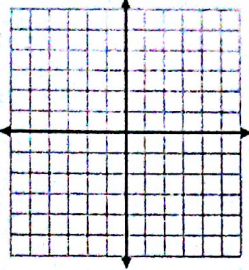
$y = \frac{1}{x+3} + 1$



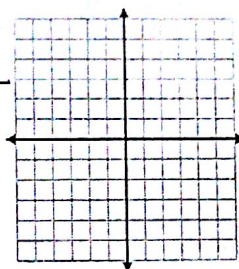
$y = -\frac{1}{x-4} + 2$



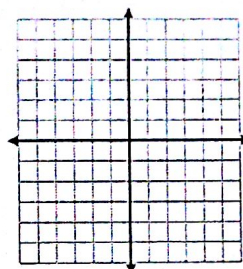
$y = -(x+3)^2 - 7$



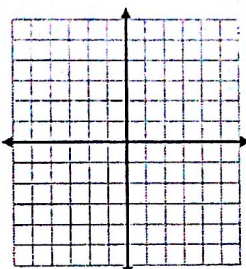
$y = x - 6$



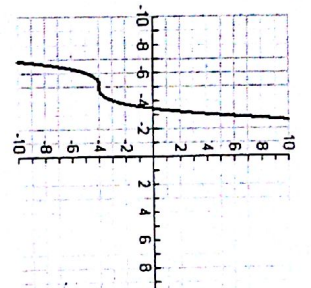
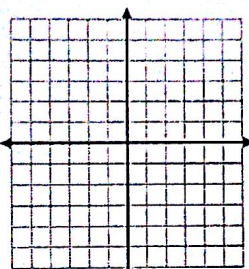
$y = \frac{1}{x-5} + 6$



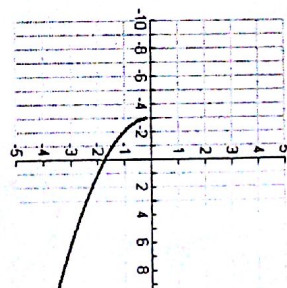
$y = -\frac{1}{x+3} + 4$



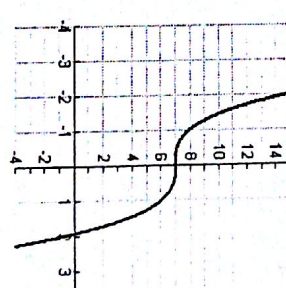
$y = -(x+3)^3 - 7$



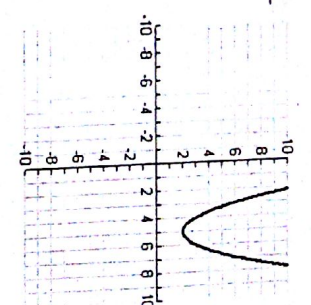
$y =$ _____
 Parent function: _____
 $y =$ _____
 Transformation: _____
 Right/Left _____
 Up/Down _____



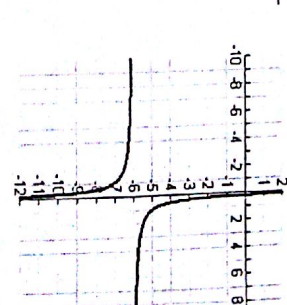
$y =$ _____
 Parent function: _____
 $y =$ _____
 Transformation: _____
 Right/Left _____
 Up/Down _____



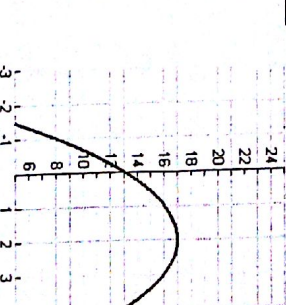
$y =$ _____
 Parent function: _____
 $y =$ _____
 Transformation: _____
 Right/Left _____
 Up/Down _____



$y =$ _____
 Parent function: _____
 $y =$ _____
 Transformation: _____
 Right/Left _____
 Up/Down _____



$y =$ _____
 Parent function: _____
 $y =$ _____
 Transformation: _____
 Right/Left _____
 Up/Down _____



$y =$ _____
 Parent function: _____
 $y =$ _____
 Transformation: _____
 Right/Left _____
 Up/Down _____