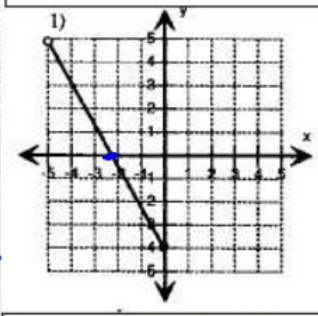


X-intercept
 ↳ Where graph crosses x-axis
 ↳ Zero
 ↳ $y = 0$
Y-intercept
 ↳ Where graph crosses y-axis
 ↳ $x = 0$

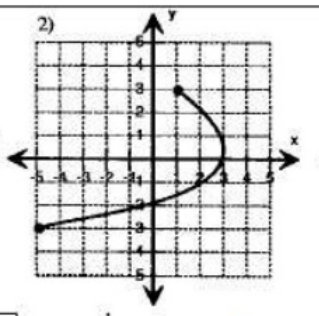
Name: _____ Score: _____

Intercepts *Where Graph Crosses X and/or Y axis*

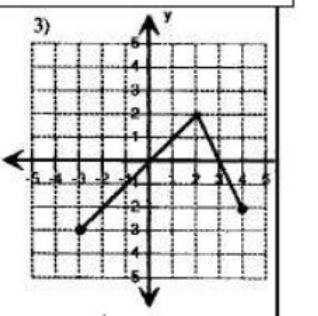
Directions: For each graph find the x-intercept and the y-intercept.



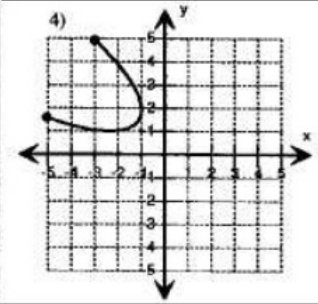
x-intercept: $(-2, 0)$
y-intercept: $(0, -4)$



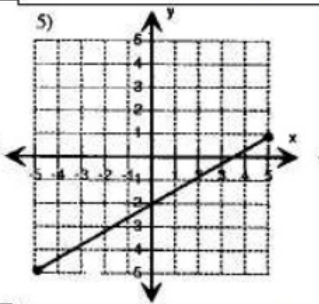
x-intercept: $(3, 0)$
y-intercept: $(0, -2)$



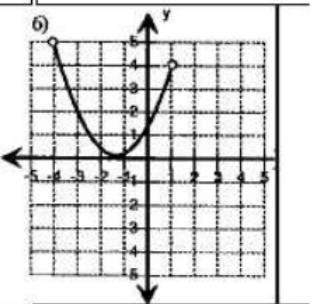
x-intercept: $(0, 0)$ $(3, 0)$
y-intercept: $(0, 0)$



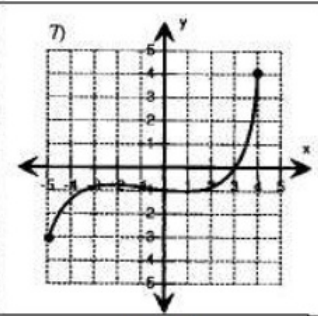
x-intercept: *None*
y-intercept: *None*



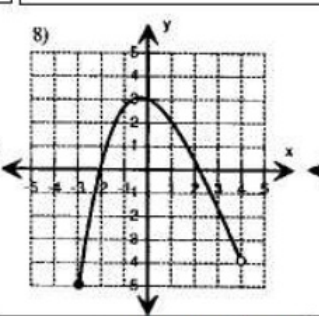
x-intercept: $(3, 0)$
y-intercept: $(0, -2)$



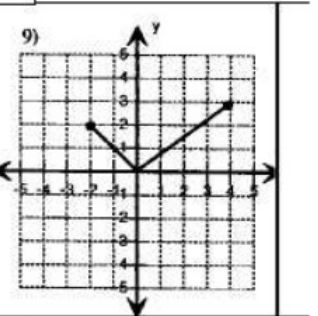
x-intercept: $(-1.5, 0)$
y-intercept: $(0, 1.5)$



x-intercept: $(3, 0)$
y-intercept: $(0, -1)$



x-intercept: $(-2, 0)$ $(2, 0)$
y-intercept: $(0, 3)$



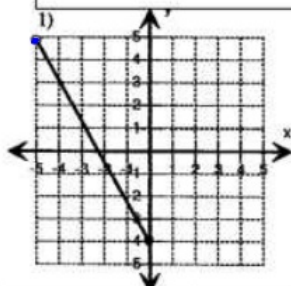
x-intercept:
y-intercept: $(0, 3)$

Max highest
y-value

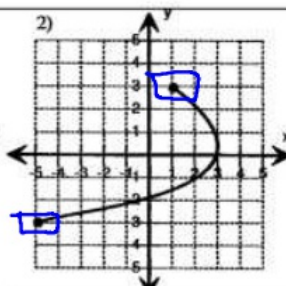
min - lowest
y-value

Maximums and Minimums

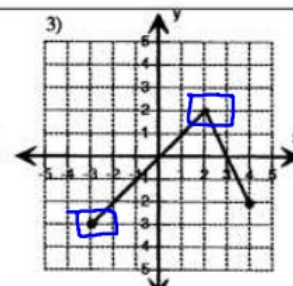
Directions: For each graph find the absolute maximum and minimum.



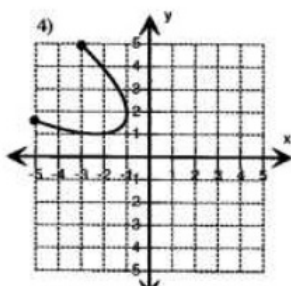
Maximum: $(-5, 5)$
Minimum: $(0, -4)$



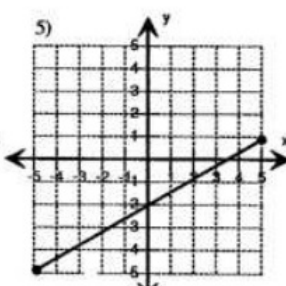
Maximum: $(1, 3)$
Minimum: $(-5, -3)$



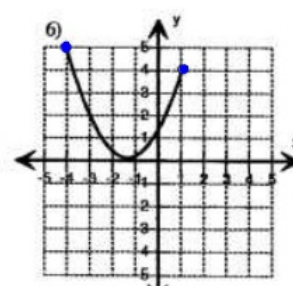
Maximum: $(2, 2)$
Minimum: $(-3, -3)$



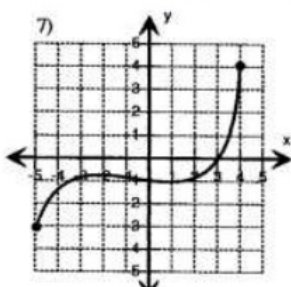
Maximum: $(-3, 5)$
Minimum: $(-2, 1)$



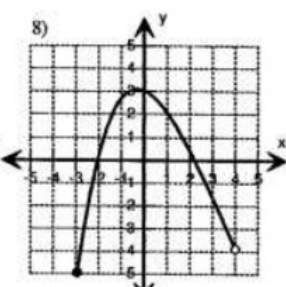
Maximum: $(5, 1)$
Minimum: $(-5, -5)$



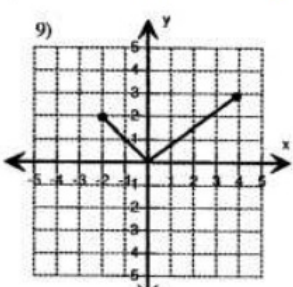
Maximum: $(-4, 5)$
Minimum: $(-1.2, 0)$



Maximum:
Minimum:



Maximum:
Minimum:

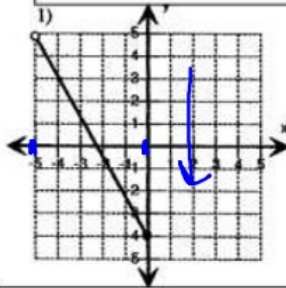


Maximum:
Minimum:

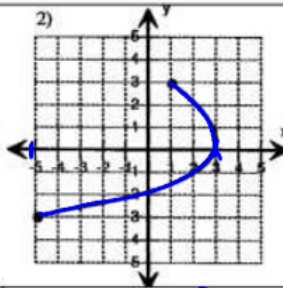
Increase/Decrease
 Y-Values
 Left \rightarrow Right
 Use x-values
 in answer

Intervals of Increase and Decrease

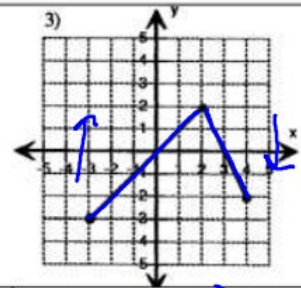
Directions: For each graph that is a function, find the intervals of increase and decrease.



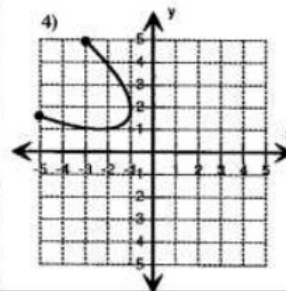
Increase: None
 Decrease: $(-5, 0)$



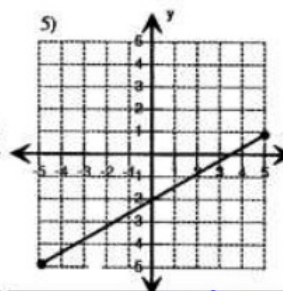
Increase: $(-5, 3)$
 Decrease: None



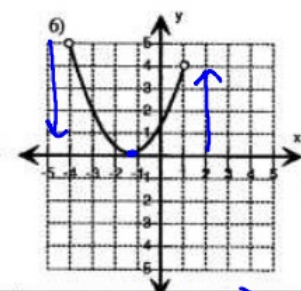
Increase: $(-3, 2)$
 Decrease: $(2, 4)$



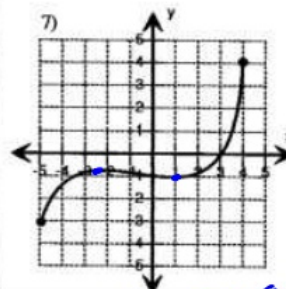
Increase:
 Decrease:



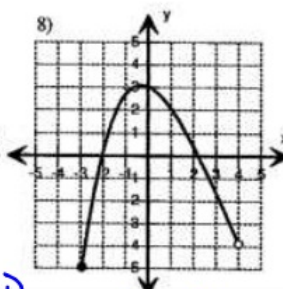
Increase: $(-5, 5)$
 Decrease: None



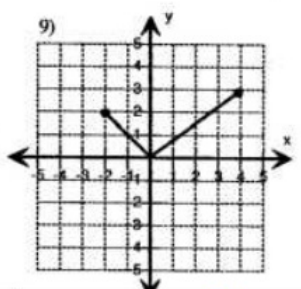
Increase: $(-1.1, 1)$
 Decrease: $(-4, -1.1)$



Increase: $(-5, -2.5)$ $(1, 4)$
 Decrease: $(-2.5, 1)$



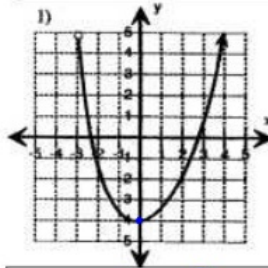
Increase: $(-3, 0)$
 Decrease: $(0, 4)$



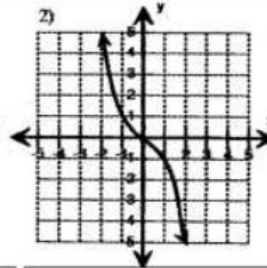
Increase: $(0, 4)$
 Decrease: $(-2, 0)$

Intervals of Increase and Decrease

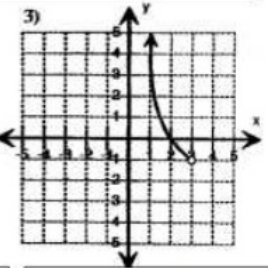
Directions: For each graph that is a function, find the intervals of increase and decrease.



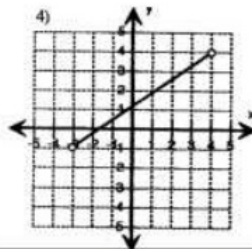
Increase: $(0, \infty)$
Decrease: $(-\infty, -3)$



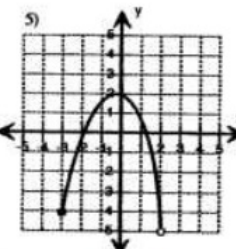
Increase: None
Decrease: $(-\infty, \infty)$



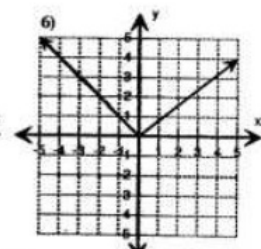
Increase: None
Decrease: $(-\infty, 3)$



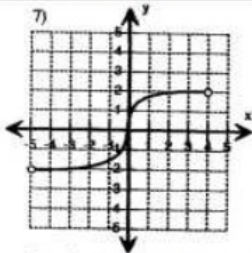
Increase: $(-\infty, 4)$
Decrease: None



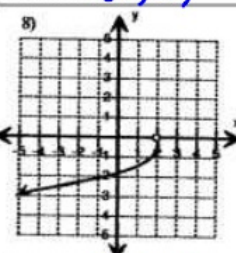
Increase: $(-\infty, 0)$
Decrease: $(0, \infty)$



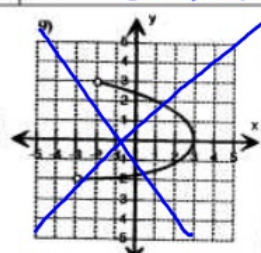
Increase: $(0, \infty)$
Decrease: $(-\infty, 0)$



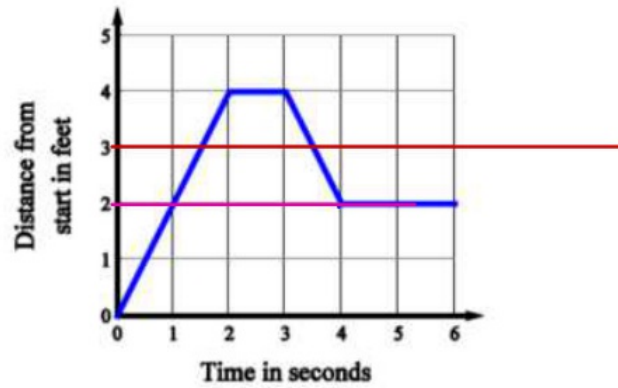
Increase: $(-\infty, 4)$
Decrease: None



Increase: $(-\infty, 2)$
Decrease: None

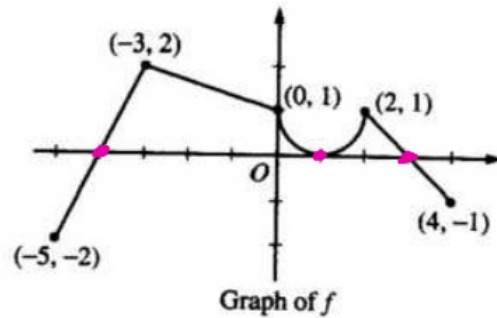


Increase:
Decrease:



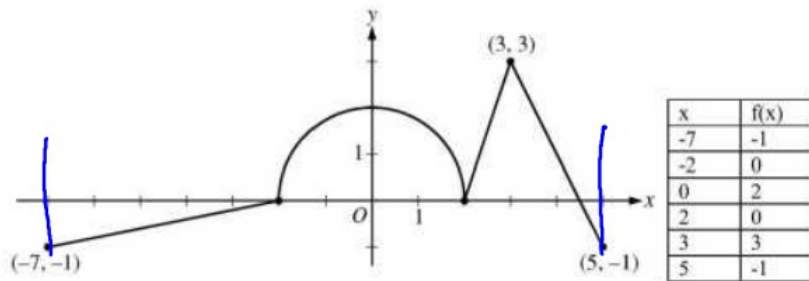
1. Find $d(0) = 0$
2. Find $d(1) = 2$
3. Find $d(4) = 2$
4. Find $d(t) = 0$
 $t = 0$
5. Find $d(t) = 3$
 $t = 1.5, 3.5$
6. Find $d(t) = 2$
 $t = 1, 4 \leq t \leq 6$

Determine the function values by looking at the graphs below.



$f(x) = y$
 \uparrow y-value
 \downarrow x-value

1. Find $f(0) = 1$
2. Find $f(-3) = 2$
3. Find $d(2) = 1$
4. Find $f(x) = -2$
 $x = -5$
5. Find $f(x) = 1$
 $x = 0, 2$
6. Find $f(x) = 0$
 $x = -1, 1, 3$

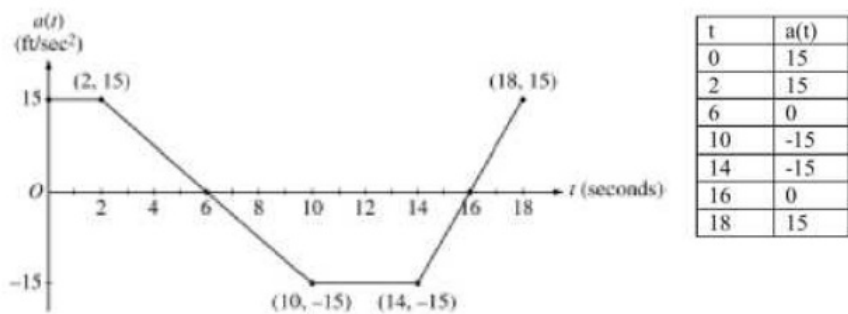


1. What is the domain of $f(x)$?

$[-7, 5]$

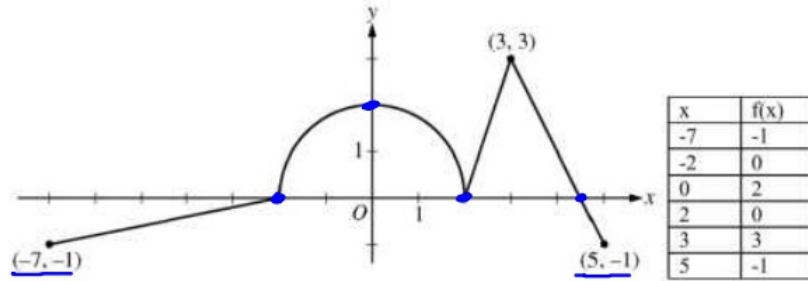
2. What is the range of $f(x)$?

$[-1, 3]$



1. What is the domain of $a(t)$?

2. What is the range of $a(t)$?



1. What are the coordinates of the point where $f(x)$ has an absolute maximum value?

$(3, 3)$

2. What are the coordinates of the point where $f(x)$ has an absolute minimum value?

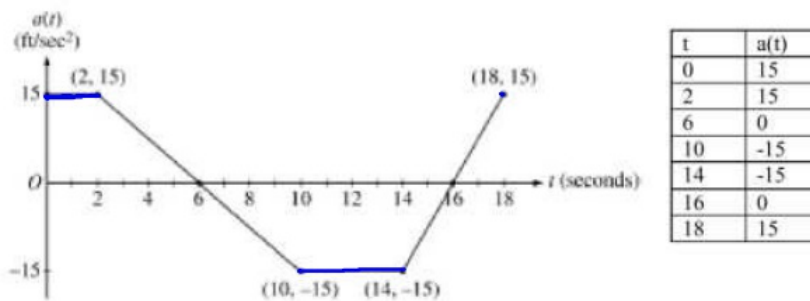
$(-7, -1)$ $(5, -1)$

3. Find the x-intercept.

$(-2, 0)$ $(2, 0)$
 $(4.5, 0)$

4. Find the y-intercept.

$(0, 2)$



1. What are the coordinates of the point where $a(t)$ has an absolute maximum value?

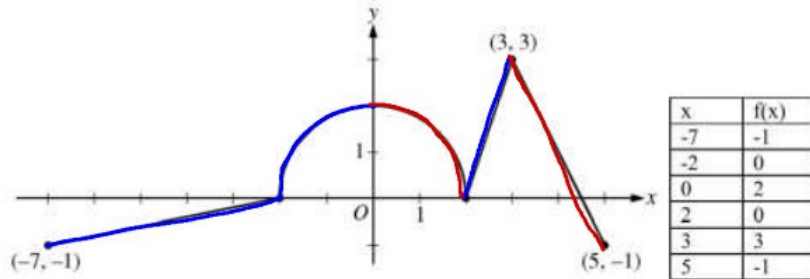
$0 \leq t \leq 2, t=18$

3. What are the coordinates of the point where $a(t)$ has an absolute minimum value?

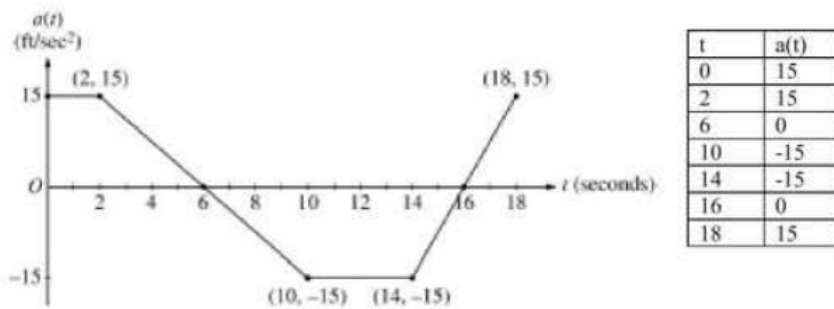
$10 \leq t \leq 14$

2. Find the x-intercept.

4. Find the y-intercept.



1. Is $f(x)$ continuous? *Yes*
2. On what interval is $f(x)$ constant?
None
3. On what intervals is $f(x)$ increasing?
(-7, 0) (2, 3)
4. On what intervals is $f(x)$ decreasing?
(0, 2) (3, 5)



1. Is $a(t)$ continuous? *Yes*
2. On what interval is $a(t)$ constant?
(0, 2) (10, 14)
3. On what intervals is $a(t)$ increasing?
(14, 18)
4. On what intervals is $a(t)$ decreasing?
(2, 10)