

# Comparing Linear Functions

Fill in the table and answer the following questions.

1) **Function A**

<b>x</b>	5	6	7
<b>y</b>	8	16	24

**Function B**

$$f(x) = 9x - \frac{1}{3}$$

Function	Slope	x-intercept	y-intercept
A			
B			

- i) Which function has a greater slope? \_\_\_\_\_
- ii) Which function has a greater y-intercept? \_\_\_\_\_
- iii) Which function has a greater x-intercept? \_\_\_\_\_

2) **Function A**

$$f(x) = -7x + 15$$

- i) Which function has a greater slope? \_\_\_\_\_
- ii) Which function has a greater y-intercept? \_\_\_\_\_
- iii) Which function has a greater x-intercept? \_\_\_\_\_

## PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please  
log in to  
download this  
worksheet.

Not a member?  
Please sign up to  
gain complete  
access.

www.mathworksheets4kids.com

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

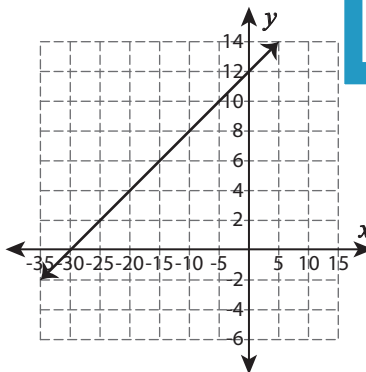
Function	Slope	x-intercept	y-intercept
A			
B			

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3) **Function A**



<b>x</b>	-5	-3	-1
<b>y</b>	0	10	20

Function	Slope	x-intercept	y-intercept
A			
B			

- i) Which function has a lesser slope? \_\_\_\_\_
- ii) Which function has a lesser y-intercept? \_\_\_\_\_
- iii) Which function has a greater x-intercept? \_\_\_\_\_

**Comparing Linear Functions**

Fill in the table and answer the following questions.

1) **Function A**

<i>x</i>	5	6	7
<i>y</i>	8	16	24

**Function B**

$$f(x) = 9x - \frac{1}{3}$$

Function	Slope	<i>x</i> -intercept	<i>y</i> -intercept
A	<b>8</b>	<b>4</b>	<b>-32</b>
B	<b>9</b>	<b><math>\frac{1}{27}</math></b>	<b><math>-\frac{1}{3}</math></b>

- i) Which function has a greater slope?
- ii) Which function has a greater *y*-intercept?
- iii) Which function has a greater *x*-intercept?

**Function B**  
 \_\_\_\_\_  
**Function B**  
 \_\_\_\_\_  
**Function B**  
 \_\_\_\_\_

2) **Function A**

$$f(x) = -7x + 15$$

# PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

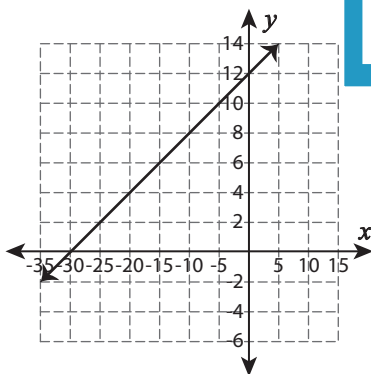
www.mathworksheets4kids.com

	<i>x</i> -intercept	<i>y</i> -intercept
	<b><math>\frac{15}{7}</math></b>	<b>15</b>
	<b>28</b>	<b>6</b>

- i) Which function has a greater slope?
- ii) Which function has a greater *y*-intercept?
- iii) Which function has a greater *x*-intercept?

**Function A**  
 \_\_\_\_\_  
**Function A**  
 \_\_\_\_\_  
**Function B**  
 \_\_\_\_\_

3) **Function A**



<i>x</i>	-5	-3	-1
<i>y</i>	0	10	20

Function	Slope	<i>x</i> -intercept	<i>y</i> -intercept
A	<b><math>\frac{2}{5}</math></b>	<b>-30</b>	<b>12</b>
B	<b>5</b>	<b>-5</b>	<b>25</b>

- i) Which function has a lesser slope?
- ii) Which function has a lesser *y*-intercept?
- iii) Which function has a greater *x*-intercept?

**Function A**  
 \_\_\_\_\_  
**Function A**  
 \_\_\_\_\_  
**Function B**  
 \_\_\_\_\_