Connect 4

Slope Formula Style

Directions:

Each student will get their own copy. This activity is differentiated between two different levels. Each level has 5 different forms. The easy level has a bitmoji with the word "Math". The hard level has a bitmoji with the word "Algebra".

Students are to solve as many problems as it takes to "Connect 4" using the slope formula $m = \frac{y_2 - y_1}{x_2 - x_1}$.

Each page has two possible options to "Connect 4".

Easy Level – Page 2-6 Hard Level – Page 7-11 Answer Keys – Page 13-22 (highlighted and match with bitmojis)



$-\frac{11}{15}$	4 7	10	$\frac{10}{3}$
Und.	9 7	$\frac{1}{3}$	5 6
$\frac{5}{3}$	8	0	5
$\frac{2}{17}$	-2	$\frac{2}{3}$	-1

(14,19) (8,9)	(-10, -14) (-5, 4)	(12, -4) (15, -1)	(-4,3) (11,-8)
(4,9) (-1,1)	(-2,-9) (8,4)	(-5,-12) (-18,1)	(-5,-16) (-7,-20)
(-15,14) (4,-6)	(-8,9) (-8,6)	(-18,-14) (3,13)	(14, -16) (12, -15)
(8,2) (5,2)	(18, -15) (19, 2)	(5,-11) (-11,12)	(-9,15) (-19,16)
(-12,-4) (16,3)	(4,9) (-1,1)	(20, -1) (-14, -5)	(9, -12) (-2, -19)



$-\frac{1}{2}$	Und.	-20	5 3
$\frac{4}{7}$	8	-2	$-\frac{20}{19}$
$\frac{10}{3}$	10	-1	0
$\frac{1}{4}$	$\frac{2}{3}$	5 6	1

(-10, -14) (-5, 4)	(-4,3) (11,-8)	(-8,9) (-8,6)	(-2,-9) (8,4)
(9,-12) (-2,-19)	(14, -16) (12, -15)	(20,14) (-17,-2)	(4,9) (-1,1)
(5,-11) (-11,12)	(8,2) (5,2)	(18, -15) (19, 2)	(-15,14) (4,-6)
(-9,15) (-19,16)	(-9,15) (0,10)	(-11,9) (-10,-11)	(12 -4) (15 -1)
	(),10) (0,10)		(12, 1) (10, 1)
(14,19) (8,9)	(-5, -16) (-7, 20)	(-3, -19) (-4, 14)	(-18, -14) (3, 13)

Choose a problem below to calculate **slope**. Find your answers using the Connect 4 board to the right. Your goal is to color in 4-in-a-row!!! There will be two different Connect 4 paths possible. Once you have successfully completed the Connect 4 Game, you are finished! Be careful and watch your signs, so you do not make any mistakes!

MATH



-33	$\frac{3}{4}$	9 10	Und.
9 7	$\frac{7}{8}$	0	$-\frac{2}{7}$
$\frac{7}{11}$	$-\frac{1}{10}$	-1	$\frac{1}{5}$
17	-4	8	4

(20,14) (-17,-2)	(-3,-19) (-4,14)	(4,9) (-1,1)	(12, -4) (15, -1)
(-10, -14) (-5, 4)	(-8,9) (-8,6)	(-9,15) (0,10)	(-9,15) (-19,16)
(8,2) (5,2)	(5,-11) (-11,12)	(9, -12) (-2, -19)	(-5,-16) (-7,20)
(14,19) (8,9)	(18, -15) (19, 2)	(-2,-9) (8,4)	(20,-1) (-14,-5)
(-18, -14) (3, 13)	(-11,9) (-10,-11)	(-4,3) (11,-8)	(-12, -4) (16, 3)



$\frac{3}{4}$	0	$-\frac{1}{3}$	$-\frac{12}{11}$
18	9 7	-2	13
-20	5 3	Und.	2
5 18	17	-10	5

(-3,-19) (-4,14)	(18,-15) (19,2)	(-4,3) (11,-8)	(-18, -14) (3, 13)
			(0.15) (10.1()
(20,-1) (-14,-5)	(8,2) (5,2)	(18, -15) (19, 2)	(-9,15) (-19,16)
(-5,-16) (-7,20)	(-12,-4) (16,3)	(-10, -14) (-5, 4)	(-8,9) (-8,6)
(2,10) (11,16)	(12, -4) (15, -1)	(-11,9) (-10,-11)	(-9,15) (0,10)
(14,19) (8,9)	(20,14) (-17,-2)	(-2,-9) (8,4)	(9, -12) (-2, -19)



$\frac{5}{6}$	7 9	$-\frac{5}{9}$	-2
-1	10	Und.	4 7
1	$-rac{1}{10}$	$\frac{2}{3}$	13 10
$-\frac{10}{3}$	$-\frac{2}{3}$	0	8

(14,19) (8,9)	(-18, -14) (3, 13)	(9,-12) (-2,-19)	(-9,15) (-19,16)
(-12,-4) (16,3)	(-8,9) (-8,6)	(20,-1) (-14,-5)	(-3,-19) (-4,14)
(-5,-16) (-7,20)	(5,-11) (-11,12)	(12, -4) (15, -1)	(2,10) (11,16)
(-2,-9) (8,4)	(-11,9) (-10,-11)	(20,14) (-17,-2)	(-9,15) (0,10)
(-10, -14) (-5, 4)	(8,2) (5,2)	(-15,14) (4,-6)	(18, -15) (19, 2)



$\frac{3}{5}$	4 5	Und.	$-\frac{18}{13}$
$-\frac{3}{8}$	-3	$-\frac{1}{22}$	0
4	$-\frac{5}{6}$	16 13	$-\frac{7}{8}$
-2	-10	$\frac{8}{7}$	13

(-4,12) (-13,-2)	(-20, -20)(18, 1)	(-8,13) (11,18)	(-10,0) (-9,-3)
(13, -6) (20, 16)	(-7, -8) (3, -15)	(-9.15) (-9.16)	(10, -4) (14, 7)
		(),10) (),10)	
(-11, -4) (-18, -12)	(7, -18) (1, 6)	(-17, 12) (-2, 3)	(-8,12) (14,11)
(16, -7) (-2, 6)	(1,2) (-6,2)	(0,4) (-16,10)	(1,5) (20,-14)
(0,13) (-2,9)	(-18, -8)(-5, 8)	(-10, -6) (3, 5)	(-18,2) (0,-5)



4	-30	$-\frac{29}{24}$	Und.
3	5 2	-1	$-rac{24}{29}$
$-\frac{1}{2}$	0	7 8	$\frac{3}{23}$
$-\frac{7}{10}$	7	2	$-\frac{5}{2}$

(16,-7) (-2,6)	(-3,15) (20,18)	(-18,2) (0,-5)	(-17,12) (-2,3)
(0,4) (-16,10)	(10, -4) (14, 7)	(1,2) (-6,2)	(-4, 12) (-13, -2)
(-8,13) (11,18)	(-19,14) (-15,4)	(-20, -20)(18, 1)	(-16,5) (13,-19)
(-9,15) (-9,16)	(1,5) (20,-14)	(-10, -6) (3, 5)	(7, -18) (1, 6)
(-18, -8)(-5, 8)	(-8,12) (14,11)	(-7, -8) (3, -15)	(13, -6) (20, 16)



$-\frac{5}{2}$	$-\frac{12}{13}$	3	-2
-30	30	$-\frac{17}{13}$	$-\frac{2}{5}$
-4	5 6	$\frac{3}{4}$	$\frac{1}{3}$
Und.	$-\frac{13}{21}$	16 13	0

(10, -4) (14, 7)	(-18,2) (0,-5)	(18, -14) (-3, -1)	(0,4) (-16,10)
(-7, -8) (3, -15)	(-9,15) (-9,16)	(-8,12) (14,11)	(-16,5) (13,-19)
(-10, -6) (3, 5)	(-17,12) (-2,3)	(1,2) (-6,2)	(-19,14) (-15,4)
(16, -7) (-2, 6)	(9,-10) (8,20)	(-11, -4) (-18, -12)	(-20, -20)(18, 1)
(-18, -8)(-5, 8)	(-4,12) (-13,-2)	(-10,0) (-9,-3)	(7, -18) (1, 6)



$-\frac{1}{22}$	-5	$-\frac{2}{3}$	-2
$-\frac{9}{14}$	Und.	-20	$\frac{7}{8}$
0	2	$-\frac{24}{29}$	$-rac{7}{18}$
4 5	5 2	19 13	$\frac{16}{13}$

(-10,-6) (3,5)	(-11, -4) (-18, -12)	(-17,12) (-2,3)	(1,2) (-6,2)
(7, -18) (1, 6)	(1,5) (20,-14)	(-18, -8)(-5, 8)	(-8,13) (11,18)
(-18,2) (0,-5)	(-16,5) (13,-19)	(16, -7) (-2, 6)	(-7, -8) (3, -15)
(-3,15) (20,18)	(0,4) (-16,10)	(-9,15) (-9,16)	(-8,12) (14,11)
(3,13) (20,10)		(),13)(),10)	(0,12)(14,11)
(-4, 12) (-13, -2)	(0,13) (-2,9)	(-19,14) (-15,4)	(18, -14) (-3, -1)



0	$-\frac{8}{7}$	$-\frac{7}{9}$	4
Und.	5 19	$\frac{11}{13}$	$-rac{7}{18}$
<u>19</u> 5	$\frac{3}{4}$	$\frac{22}{7}$	$-\frac{6}{7}$
$-\frac{2}{3}$	30	5	$-\frac{13}{21}$

(-8,12) (14,11)	(0,13) (-2,9)	(7, -18) (1, 6)	(13, -6) (20, 16)
(-8,13) (11,18)	(-16,5) (13, -19)	(-18, -8)(-5, 8)	(18, -14) (-3, -1)
(-11, -4) (-18, -12)	(1,2) (-6,2)	(-10, -6) (3, 5)	(1,5) (20,-14)
(-19,14) (-15,4)	(-17,12) (-2,3)	(-18,2) (0,-5)	(9,-10) (8,20)
(-3,15) (20,18)	(-9,15) (-9,16)	(0,4) (-16,10)	(-7, -8) (3, -15)
	1	1	

Connect 4 Slope Formula Style Answer Keys



$-\frac{11}{15}$	$\frac{4}{7}$	10	$\frac{10}{3}$
Und.	9 7	$\frac{1}{3}$	5 6
5 3	8	0	5
2 17	-2	$\frac{2}{3}$	-1

(14, 19) $(8, 9)$	(-10, -14) (-5, 4)	(12, -4) $(15, -1)$	(-4,3) (11,-8)
5	18	m = 1	11
$m=\frac{5}{3}$	m =		$m = -\frac{1}{1}$
	$m = \frac{18}{5}$ (-2, -9) (8, 4)		$m = -\frac{11}{15}$
(4,9) (-1,1)	(-2, -9) (8, 4)	(-5, -12) $(-18, 1)$	(-5,-16) (-7,-20)
0	10		2
$m - {}^{8}$	$m - \frac{13}{13}$	m = -1	m = 2
$m=\frac{8}{5}$	$m = \frac{10}{10}$		
(-15, 14) $(4, -6)$	$m = \frac{13}{10}$ (-8,9) (-8,6)	(-18 - 14) (3 13)	(14, -16) (12, -15)
	(-0, 9) $(-0, 0)$	(-10, -14)(3, 13)	(14, -10) $(12, -13)$
20	m = undefined	9	1
$m=-rac{20}{19}$	m – unucjincu	$m = \frac{1}{2}$	$m=-rac{1}{2}$
<u>19</u>		7	2
(8,2) (5,2)	(18, -15) $(19, 2)$	(5, -11) $(-11, 12)$	(-9, 15) (-19, 16)
		22	1
m = 0	m = 17	$m = -\frac{23}{16}$	$m = -\frac{1}{10}$
		m = 16	m = 10
(12) $(1(2))$			
(-12, -4) (16, 3)	(4,9) (-1,1)	(20, -1) $(-14, -5)$	(9, -12) (-2, -19)
1	9	2	7
$m = \frac{1}{4}$	$m=\frac{8}{5}$	$m=\frac{2}{17}$	$m = \frac{7}{11}$
4	m^{-} 5	¹¹⁷ 17	^{<i>m</i>-} 11



$-\frac{1}{2}$	Und.	-20	5
$\frac{4}{7}$	8	-2	$-\frac{20}{19}$
$\frac{10}{3}$	10	-1	0
$\frac{1}{4}$	$\frac{2}{3}$	<u>5</u> 6	1

(-10, -14) (-5, 4)	(-4,3) (11,-8)	(-8,9) (-8,6)	(-2,-9) (8,4)
$m=\frac{18}{5}$	$m = -\frac{11}{15}$ (14, -16) (12, -15)	m = undefined	$m = \frac{13}{10}$
(9,-12) (-2,-19)	(14, -16) (12, -15)	(20,14) (-17,-2)	(4,9) (-1,1)
$m = \frac{7}{11}$ (5, -11) (-11, 12)	$m=-\frac{1}{2}$	$m=\frac{16}{37}$	$m=rac{8}{5}$
(5,-11) (-11,12)	(8,2) (5,2)	(18, -15) (19, 2)	(-15,14) (4,-6)
<i>m</i> - 23 <u>16</u> (-9, 15) (-19, 16)	<i>m</i> = 0	<i>m</i> = 17	$m=-\frac{20}{19}$
(-9,15) (-19,16)	(-9,15) (0,10)	(-11,9) (-10,-11)	(12, -4) (15, -1)
$m = -rac{1}{10}$	$m=-rac{5}{9}$	<i>m</i> = -20	<i>m</i> = 1
(14,19) (8,9)		(-3, -19) (-4, 14)	(-18, -14) (3, 13)
$m=\frac{5}{3}$	m = 2	m = -33	$m=rac{9}{7}$



-33	$\frac{3}{4}$	9 10	Und.
9 7	7 8	0	$-\frac{2}{7}$
7 11	$-\frac{1}{10}$	-1	$\frac{1}{5}$
17	-4	8	4

(20.14)(-172)	(-3, -19) $(-4, 14)$	(4,9) $(-1,1)$	(12, -4) $(15, -1)$
16	m = -33	8	m = 1
$m = \frac{16}{37}$		$m=\frac{8}{5}$	
3/			
(-10, -14) (-5, 4)	(-8,9) (-8,6)	(-9,15) (0,10)	(-9,15) (-19,16)
10			
	m = undefined	5	1
$m=\frac{18}{5}$	-	$m = -\frac{1}{2}$	$m = -\frac{10}{10}$
	m = undefined (5,-11) (-11,12)	(0, 12) $(2, 10)$	([1 () (7 20)]
(8,2) (5,2)	(5,-11) $(-11,12)$	(9, -12)(-2, -19)	(-5, -16)(-7, 20)
0	23	7	2
m = 0	$m-\frac{23}{2}$	<u> </u>	m = 2
m = 0	$m - \frac{23}{16}$	$m=\frac{7}{11}$	m = 2
	=•	$m = \frac{7}{11}$	
m = 0 (14, 19) (8, 9)	$m - \frac{23}{16}$ (18, -15) (19, 2)	$m = \frac{7}{11}$ (-2, -9) (8, 4)	m = 2 (20, -1) (-14, -5)
	=•	$m = \frac{7}{11}$ (-2,-9) (8,4)	
	=•	$m = \frac{7}{11}$ (-2,-9) (8,4)	
(14,19) (8,9)	(18, -15) (19, 2)	(-2,-9) (8,4)	(20,-1) (-14,-5)
(14,19) (8,9)	=•	(-2,-9) (8,4)	(20,-1) (-14,-5)
	(18, -15) (19, 2)	$m = \frac{7}{11}$ (-2, -9) (8, 4) $m = \frac{13}{10}$	
(14, 19) (8, 9) $m = \frac{5}{3}$	(18, -15) (19, 2) m = 17	$(-2, -9)^{-1} (8, 4)$ $m = \frac{13}{10}$	(20, -1) (-14, -5) $m = \frac{2}{17}$
(14, 19) (8, 9) $m = \frac{5}{3}$	(18, -15) (19, 2)	$(-2, -9)^{-1} (8, 4)$ $m = \frac{13}{10}$	(20,-1) (-14,-5)
(14, 19) (8, 9) $m = \frac{5}{3}$	(18, -15) (19, 2) m = 17	$(-2, -9)^{-1} (8, 4)$ $m = \frac{13}{10}$	(20, -1) (-14, -5) $m = \frac{2}{17}$
(14, 19) (8, 9) $m = \frac{5}{3}$	(18, -15) (19, 2) m = 17	$(-2, -9)^{-1} (8, 4)$ $m = \frac{13}{10}$	(20, -1) (-14, -5) $m = \frac{2}{17}$
(14, 19) (8, 9) $m = \frac{5}{3}$	(18, -15) (19, 2) $m = 17$ $(-11, 9) (-10, -11)$	$m = \frac{13}{10}$ (-4,3) (11,-8)	$(20, -1) (-14, -5)$ $m = \frac{2}{17}$ $(-12, -4) (16, 3)$
(14, 19) (8, 9) $m = \frac{5}{3}$	(18, -15) (19, 2) m = 17	$(-2, -9)^{-1} (8, 4)$ $m = \frac{13}{10}$	(20, -1) (-14, -5) $m = \frac{2}{17}$



$\frac{3}{4}$	0	$-\frac{1}{3}$	$-\frac{12}{11}$
18	9 7	-2	13
-20	5 3	Und.	2
5 18	17	-10	5

$\frac{14}{-19,16}$
(-19,10)
$=-\frac{1}{10}$
10
) (-8,6)
defined
iucj incu
5) (0,10)
) (0,10)
-
$=-\frac{3}{9}$
$=-\frac{3}{9}$ (-2,-19)
$=-\frac{3}{9}$ (-2,-19)
$=-\frac{3}{9}$ (-2,-19)
$= -\frac{3}{9}$ (-2, -19) $= \frac{7}{11}$



5	7	_ <mark>5</mark>	-2
6	9	_9	
-1	10	Und.	4 7
1	- <u>1</u>	2	13
	10	3	10
$-\frac{10}{3}$	$-\frac{2}{3}$	0	8

(14, 19) (8, 9)	(-18, -14)(3, 13)	(9, -12) (-2, -19)	(-9, 15)(-19, 16)
_	0	_	1
5	- 9	- 7 7	$m - \underline{-}$
$m = \frac{5}{3}$ (-12, -4) (16, 3)	$m=\frac{9}{7}$	$m=\frac{7}{11}$	<i>m</i> – 10
(-12, -4) (16, 3)	(-8,9) (-8,6)	(20, -1) (-14, -5)	
		2	
$m=\frac{1}{4}$	m = undefined	$m=\frac{2}{17}$	m = -33
$m = \frac{1}{4}$		$m = \frac{17}{17}$	
(-5, -16) $(-7, 20)$	(5,-11) (-11,12)	(12, -4) (15, -1)	(2,10) $(11,16)$
	(0) 11) (11) 12)		
	22		
m = 2	$m - \frac{23}{3}$	m = 1	2
	$m-\frac{23}{16}$		$m=\frac{2}{3}$
(-2, -9) (8, 4)	(-11,9) (-10,-11)	(20,14) (-17,-2)	(-9, 15) $(0, 10)$
10		4.6	
13	m = -20	16	5
$m=\frac{13}{10}$	m = -20	$m=rac{16}{37}$	$m=-\frac{5}{9}$
		0.	$m = -\frac{5}{9}$ (18 -15) (19 2)
$m = \frac{13}{10}$ (-10, -14) (-5, 4)	m = -20 (8,2) (5,2)	$m = \frac{16}{37}$ (-15,14) (4,-6)	$m = -\frac{5}{9}$ (18, -15) (19, 2)
20		0.	
(-10, -14) (-5, 4)		(-15,14) (4,-6)	
(-10, -14) (-5, 4)		(-15,14) (4,-6)	
10	(8,2) (5,2)	0.	(18, -15) (19, 2)



$\frac{3}{5}$	4 5	Und.	$-\frac{18}{13}$
$-\frac{3}{8}$	-3	$-\frac{1}{22}$	0
4	$-\frac{5}{6}$	16 13	$-\frac{7}{8}$
-2	-10	8 7	13

(-4, 12)(-13, -2)	(-20, -20)(18, 1)	(-8,13) (11,18)	(-10,0) $(-9,-3)$
14	21	-	
$m - \frac{14}{m}$	$m-\frac{21}{2}$	$m=rac{5}{19}$	m = -3
$m = \frac{14}{9}$	<i>m</i> – 38	^{<i>m</i> –} 19	
(13, -6) (20, 16)	$m = \frac{21}{38}$ (-7, -8) (3, -15)	(-9,15) (-9,16)	(10, -4) (14, 7)
22	-		11
$m - \frac{ZZ}{Z}$	$m \frac{1}{m}$	m = undefined	$m=rac{11}{4}$
<i>m</i> = 7	<i>m</i> – 10		-
$m = \frac{22}{7}$ (-11,-4) (-18,-12)	$m = -\frac{7}{10}$ (7,-18) (1,6)	(-17, 12)(-2, 3)	(-8,12) (14,11)
0		2	1
$m=\frac{8}{7}$	m = -4	$m = -\frac{3}{5}$	$m=-\frac{1}{22}$
		•	22
(16, -7) (-2, 6)	(1,2) $(-6,2)$	(0,4) $(-16,10)$	(1,5) $(20,-14)$
10	m = 0	2	1
$m = -\frac{13}{m}$	m = 0	$m=-rac{3}{8}$	m = -1
<u> </u>		8	
$m = -\frac{13}{18}$ (0,13) (-2,9)	(-18, -8)(-5, 8)	(-10, -6)(3, 5)	(-18, 2) (0, -5)
	16	11	7
m = 2	$m = \frac{16}{13}$	$m = \frac{11}{13}$	$m = -\frac{7}{18}$
	13	13	18



4	-30	$-\frac{29}{24}$	Und.
3	5 2	-1	$-\frac{24}{29}$
$-\frac{1}{2}$	0	$\frac{7}{8}$	3 23
$-\frac{7}{10}$	7	2	$-\frac{5}{2}$

(16, -7) (-2, 6)	(-3,15) (20,18)	(-18, 2) (0, -5)	(-17, 12)(-2, 3)
12	2	7	2
$m\frac{13}{1}$	$m - \frac{3}{m}$	$m = -\frac{7}{100}$	$m\frac{3}{-}$
$m = \frac{18}{18}$	$m=\frac{1}{23}$	$m = -\frac{7}{18}$	m = 5
$m = -\frac{13}{18}$ (0,4) (-16,10)	(10, -4)(14, 7)	(1,2) (-6,2)	$\frac{m = -\frac{3}{5}}{(-4, 12)(-13, -2)}$
			(), =) (=)
2	11		
$m - \underline{3}$	$m=rac{11}{4}$	m = 0	$m=rac{14}{9}$
$m=-\frac{3}{8}$	$m = \frac{1}{4}$		$m = \frac{1}{9}$
(-8,13) (11,18)	(-19,14) (-15,4)	(-20, -20)(18, 1)	(-16,5) (13,-19)
(), _) (, _)			
	_		24
5	$m = -\frac{5}{-}$	21	$m = -\frac{24}{2}$
$m=\frac{5}{19}$	$m=-\frac{5}{2}$	$m = \frac{21}{38}$	$m=-\frac{24}{29}$
(-9,15) (-9,16)	(1,5) $(20,-14)$	(-10, -6)(3, 5)	(7, -18) (1, 6)
			(), 10)(1)0)
m = undefined	m = -1	$m=rac{11}{13}$	m = -4
		$m = \frac{13}{13}$	
(-18, -8)(-5, 8)	(-8,12) (14,11)	(-7, -8)(3, -15)	(13, -6) (20, 16)
10	4		22
$m - \frac{10}{m}$	$m \frac{1}{m}$	7	$m - \frac{22}{2}$
$\frac{m}{13}$	$\frac{11}{22}$	$m = -\frac{10}{10}$	$m = \frac{1}{7}$
$m = \frac{16}{13}$	$m=-rac{1}{22}$	$m = -\frac{7}{10}$	$m=rac{22}{7}$



$-\frac{5}{2}$	$-\frac{12}{13}$	3	-2
-30	30	$-\frac{17}{13}$	$-\frac{2}{5}$
-4	<u>5</u> 6	$\frac{3}{4}$	$\frac{1}{3}$
Und.	$-\frac{13}{21}$	16 13	0

(10, -4) (14, 7)	(-18,2) (0,-5)	(18, -14) (-3, -1)	(0,4) (-16,10)
11	-	10	C
$m = \frac{11}{4}$	$m = -\frac{7}{18}$	$m = -\frac{13}{21}$	$m=-\frac{3}{2}$
4	$m = -\frac{1}{18}$ (-9, 15) (-9, 16)		$m = -\frac{3}{8}$ (-16,5) (13,-19)
(-7, -8)(3, -15)	(-9,15) (-9,16)	(-8,12) (14,11)	(-16,5) (13,-19)
7		1	24
$m = -\frac{7}{10}$ (-10, -6) (3, 5)	m = undefined	$m = -\frac{1}{22}$ (1,2) (-6,2)	$m=-\frac{24}{29}$
		22	29
(-10, -6)(3, 5)	(-17,12) (-2,3)	(1,2) (-6,2)	(-19,14) (-15,4)
11	2		-
$m = \frac{11}{13}$	$m = -\frac{3}{5}$	m = 0	$m=-rac{5}{2}$
	-		
(16,-7) (-2,6)	(9,-10) (8,20)	(-11, -4) (-18, -12)	(-20, -20)(18, 1)
40			- /
$m = -\frac{13}{18}$	m = -30	$m-\frac{8}{2}$	$m = \frac{21}{38}$ (7, -18) (1, 6)
18		<u> </u>	<i>m</i> – 38
(-18, -8)(-5, 8)	(-4,12) (-13,-2)	$\frac{m = \frac{1}{7}}{(-10,0) \ (-9,-3)}$	(7, -18) (1, 6)
$m=\frac{16}{13}$	$m=\frac{14}{9}$	m = -3	m = -4
$\frac{m}{13}$	$m = \frac{1}{9}$		



$-\frac{1}{22}$	-5	$-\frac{2}{3}$	-2
$-\frac{9}{14}$	Und.	-20	7 8
0	2	$-\frac{24}{29}$	$-\frac{7}{18}$
4 5	<u>5</u> 2	19 13	16 13

(-10, -6)(3, 5)	(-11, -4)(-18, -12)	(-17, 12)(-2, 3)	(1,2) $(-6,2)$
		_	
11	8	3	m = 0
$m=\frac{11}{13}$	$m=rac{8}{7}$	$m=-rac{3}{5}$	
		Ţ	
(7, -18) (1, 6)	(1,5) (20,-14)	(-18, -8)(-5, 8)	(-8,13) (11,18)
		16	-
m = -4	m = -1	$m - \frac{16}{m}$	- ⁵
		$m=\frac{1}{13}$	$m - \frac{19}{19}$
(-18, 2) (0, -5)	(-16,5) (13, -19)	(16, -7) (-2, 6)	$m = \frac{5}{19}$ (-7, -8) (3, -15)
(10,2)(0,3)		(10, 7)(2,0)	(, 0)(3, 13)
7	24	13	7
$m = -\frac{7}{18}$	$m = -\frac{24}{29}$	$m = -\frac{13}{18}$	$m=-rac{7}{10}$
		-	
(-3, 15)(20, 18)	(0,4) $(-16,10)$	(-9,15) (-9,16)	(-8,12) (14,11)
2	2		1
m - 3	m 3	m = undefined	m
$m=\frac{1}{23}$	$m=-rac{3}{8}$		$m=-\frac{1}{22}$
(-4, 12)(-13, -2)	(0,13) (-2,9)	(-19,14) (-15,4)	
	(0, 13)(-2, 9)		(10, -14)(-3, -1)
14	<i>m</i> = 2	5	13
$m = \frac{14}{9}$	m - 2	$m = -\frac{3}{2}$	$m = -\frac{10}{21}$
9		2	21



0	$-\frac{8}{7}$	$-\frac{7}{9}$	4
Und.	5 19	11 13	$-\frac{7}{18}$
<u>19</u> 5	$\frac{3}{4}$	22 7	$-\frac{6}{7}$
$-\frac{2}{3}$	30	5	$-\frac{13}{21}$

(-8,12) (14,11)	(0,13) (-2,9)	(7, -18) (1, 6)	(13, -6) (20, 16)
$m = -\frac{1}{22}$	m = 2	m = -4	$m = \frac{22}{7}$
(-8,13) (11,18)	(-16,5) (13,-19)	(-18, -8)(-5, 8)	(18, -14) (-3, -1)
$m = \frac{5}{19}$ (-11, -4) (-18, -12)	$m=-rac{24}{29}$	$m = \frac{16}{13}$	$m=-\frac{13}{21}$
(-11, -4) (-18, -12)	(1,2) (-6,2)	(-10, -6) (3, 5)	(1,5) (20,-14)
$m=\frac{8}{7}$	<i>m</i> = 0	$m=\frac{11}{13}$	m = -1
(-19,14) (-15,4)	(-17, 12) (-2, 3)	(-18,2) (0,-5)	(9, -10) (8, 20)
$m = -\frac{5}{2}$ (-3, 15) (20, 18)	$m = -\frac{3}{5}$	$m=-\frac{7}{18}$	m = -30
(-3,15) (20,18)	(-9,15) (-9,16)	(0,4) (-16,10)	(-7, -8) (3, -15)
$m=rac{3}{23}$	m = undefined	$m = -\frac{3}{8}$	$m=-rac{7}{10}$