

Slope Worksheet

Parallel and Perpendicular Lines

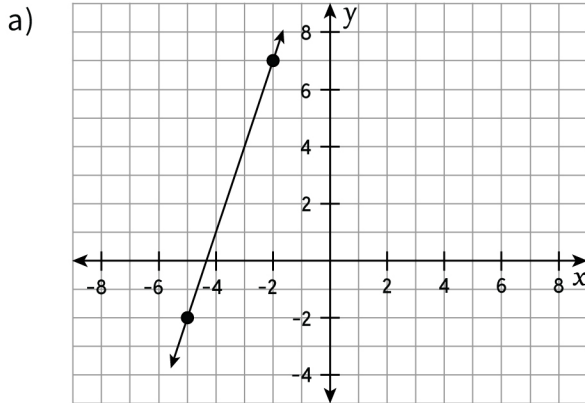
1 Determine the slope of the line passing through the given points.

a) $(9, -5), (3, 4)$

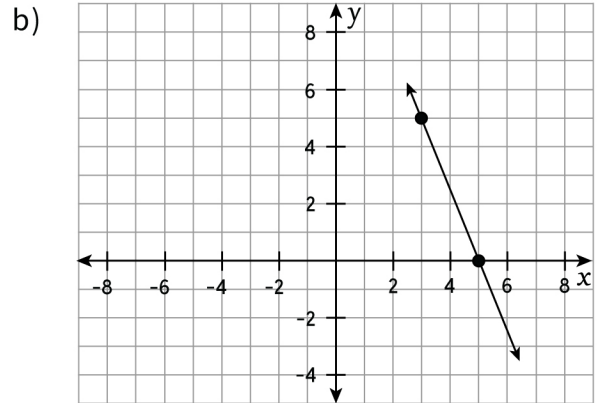
b) $(10, -12), (-7, 5)$

c) $(-17, 2), (3, -7)$

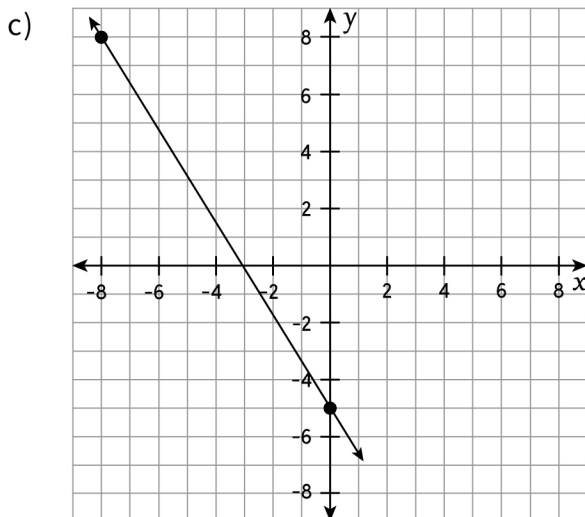
2 Find the slope of each line.



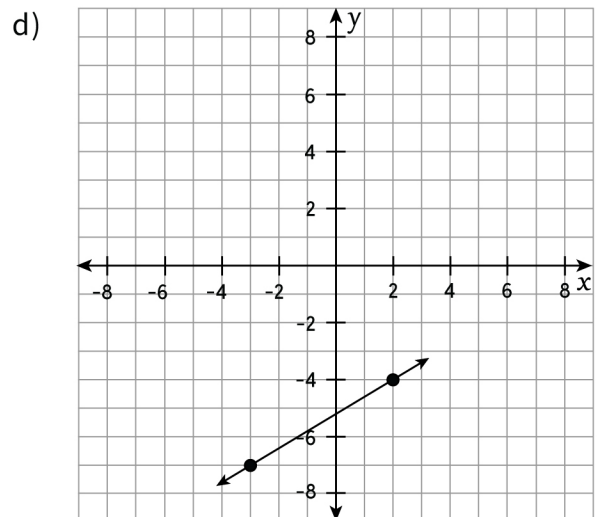
Slope =



Slope =



Slope =



Slope =

3 Determine the slope of a parallel and a perpendicular line to the given one.

m	m of Parallel	m of Perpendicular
7		
17		
$\frac{1}{11}$		
$\frac{2}{5}$		
9		
$\frac{8}{9}$		

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Answers

1

a) (9, -5), (3, 4)

$$-\frac{3}{2}$$

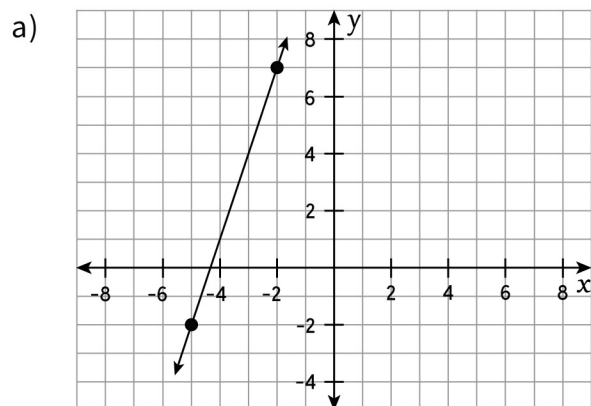
b) (10, -12), (-7, 5)

$$-1$$

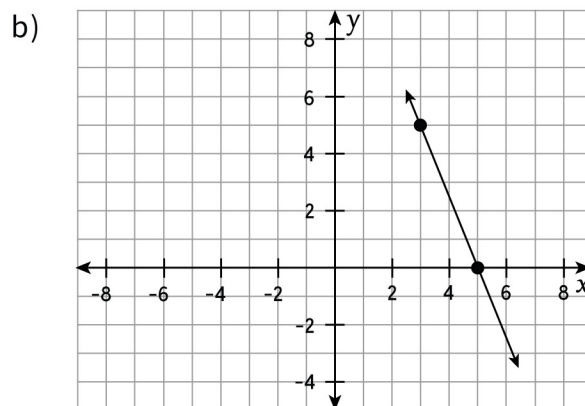
c) (-17, 2), (3, -7)

$$-\frac{9}{20}$$

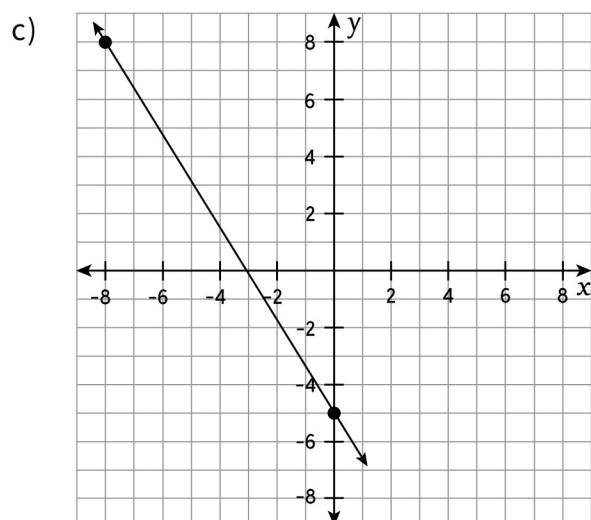
2



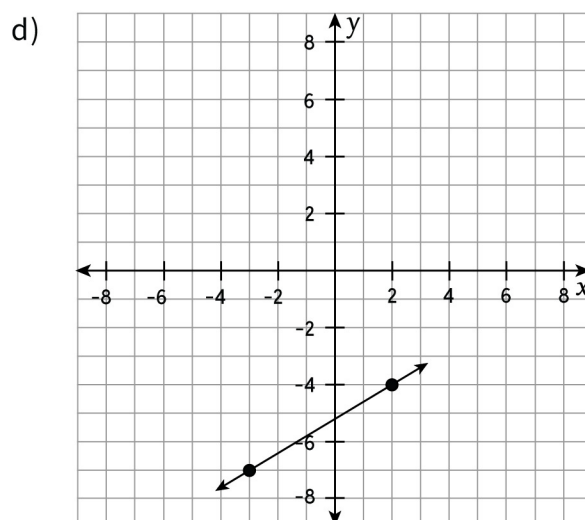
Slope = 3



Slope = $-\frac{5}{2}$



Slope = $-\frac{13}{8}$



Slope = $\frac{3}{5}$

3

m	m of Parallel	m of Perpendicular
7	7	$-\frac{1}{7}$
17	17	$-\frac{1}{17}$
$\frac{1}{11}$	$\frac{1}{11}$	-11
$\frac{2}{5}$	$\frac{2}{5}$	$-\frac{5}{2}$
9	9	$-\frac{1}{9}$
$\frac{8}{9}$	$\frac{8}{9}$	$-\frac{9}{8}$