

Basic Calculation Practice. For each exercise determine the missing value

a) Right Triangle. $c^2 = a^2 + b^2$

a	b	c
12	18	
26		42
	34	55
18	26	
22		38
	22	35

b) Slope $m = \frac{y_2 - y_1}{x_2 - x_1}$

x_1	y_1	x_2	y_2	m
5	3	8	11	
2	9	6	12	
-3	7	5	-3	

c) Slope $m = \frac{y_2 - y_1}{x_2 - x_1}$

Determine "m" given the following points

1. $(-5, 8)$ and $(-2, -7)$
2. $(-7, 2)$ and $(-4, 8)$
3. $(-9, -5)$ and $(6, -3)$

d) Working with tan. $\tan \theta = \frac{opp}{adj}$

Opp	Adj	θ
14	19	
23	15	
12		42°
34		76°
	26	8°
	9	21°

e) Proportions $\frac{a}{b} = \frac{c}{d} \Rightarrow a \cdot d = b \cdot c$

a) $\frac{6}{7} = \frac{x}{12}$

b) $\frac{12}{17} = \frac{40}{x}$

c) $\frac{x}{21} = \frac{26}{48}$

d) $\frac{8}{x} = \frac{32}{14}$