1) Determine the slope of the given line segments using the slope formula. Mr. Smith’s answers are all in lowest terms.

* Label each number with $x\_{1},y\_{1},x\_{2}, and y\_{2}$ first.
* Then use the formula!

|  |  |
| --- | --- |
| a) A(3, 4) and B(9, 10) | b) C(2, 1) and D(8, 13) |
| Slope calculation: | Slope calculation: |
| c) E(2.5, 6.5) and F(6.5, 8.5) | d) G(1.4, 8.2) and H(1.5, 9.2) |
| Slope calculation: | Slope calculation: |

2) Determine the slope of the following line segments using the slope formula: 

a) (15,22) and (17, 26) b) (22,34) and (23, 37)

c) (4,13) and (9, 15) d) (1.1,2) and (1.6, 5)

e) (14,11) and (17, 11) f) (5,7) and (3, 13)

g) (4,13) and (6, 11) h) (-6,-7) and (3, 2)

Answers:

1a) $m=1$ b) $m=2$ c) $m=\frac{1}{2}$ d) $m=10$

2a) $m=2$ b) $m=3$ c) $m=\frac{2}{5}$ d) $m=6$ e) $m=0$ f) $m=-3$ g) $m=-1$

h) $m=1$