# 5.2 – SLOPE

Slope: the rate of vertical change to horizontal change

 SLOPE =

READ THE GRAPH FROM LEFT TO RIGHT

|  |  |  |  |
| --- | --- | --- | --- |
| Positive | Negative | Zero | Undefined |
| Slope | Slope | Slope | Slope |

Find the slope between each given point.

1. C and D: \_\_\_\_\_\_\_\_\_\_\_\_
2. B and C: \_\_\_\_\_\_\_\_\_\_\_\_
3. E and F: \_\_\_\_\_\_\_\_\_\_\_\_
4. A and E: \_\_\_\_\_\_\_\_\_\_\_\_
5. B and D: \_\_\_\_\_\_\_\_\_\_\_\_

6. B and F: \_\_\_\_\_\_\_\_\_\_\_\_



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#### F

#### E

#### D

#### C

#### B

#### A

##### SLOPE FORMULA

Given two points $\left(x\_{1}, y\_{1}\right)$ and $\left(x\_{2}, y\_{2}\right)$

$$m=\frac{y\_{2}-y\_{1}}{x\_{2}-x\_{1}}$$

Find the slope of the line through the points:

1. $\left(-2, 3\right)$ and $\left(4, 8\right)$ 2. $\left(7, -6\right)$ and $\left(-5, 2\right)$

3. $\left(1, 2\right)$ and $\left(5, 2\right)$ 4. $\left(2, 1\right)$ and $\left(2, 5\right)$