

Name: _____

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Lakeside Academy MYP 3 - Worksheet # 201.1

Analytical Geometry: Change in x, Change in y, Distance

$$\text{Change in } x : \Delta x = x_2 - x_1$$

$$\text{Change in } y : \Delta y = y_2 - y_1$$

$$\text{Distance Formula : } d(A, B) = \left| \sqrt{(\Delta x)^2 + (\Delta y)^2} \right|$$

Determine the change in x, the change in y and the distance between the following two coordinates:

1) $A(-3, 4)$ and $B(5, -2)$

2) $C(-15, 4)$ and $D(-7, -2)$

3) $E(-70, 48)$ and $F(-65, 36)$

4) $G(17, -4)$ and $H(7, -14)$

5) $I(5, 8)$ and $J(-3, 2)$

6) $K(4.8, 1.3)$ and $L(3.6, 1.8)$

7) $M(14, -7)$ and $N(20, 13)$

8) $Q(343, 92)$ and $R(303, 32)$

9) $S(-7.5, 9)$ and $T(19.5, 4)$

10) $U(18.35, 14.2)$ and $V(53.35, 45.8)$

11) $A(-3, 4)$ and $C(-15, 4)$

12) $B(5, -2)$ and $D(-7, -2)$

13) $E(-70, 48)$ and $G(17, -4)$

14) $F(-65, 36)$ and $H(7, -14)$

15) $I(5, 8)$ and $M(14, -7)$

16) $J(-3, 2)$ and $N(20, 3)$

17) $Q(343, 92)$ and $T(19.5, 4)$

18) $R(303, 32)$ and $M(14, -7)$

19) $S(-7.5, 9)$ and $N(20, 3)$