Mathelaureate

Distance between two points Practice worksheet

The distance between two points (x_1, y_1) and (x_2, y_2) $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Calculate the distance between the following pairs of points in a 2D coordinate plane

1. Find the distance between points $A(3,4)$ and $B(6,7)$.
2. Calculate the distance between points $P(2,1)$ and $Q(8,9)$.
3. Determine the distance between points $X(0,0)$ and $Y(5,12)$.
4. Find the distance between points $M(-2,7)$ and $N(3,-5)$.
5. Calculate the distance between points $R(-4,-3)$ and $S(1,5)$.
6. Determine the distance between points $U(6,-2)$ and $V(6,8)$.
7. Find the distance between points $L(7,1)$ and $T(7,9)$.
8. Calculate the distance between points $H(-1,-6)$ and $G(3,-6)$.
9. Determine the distance between points $D(2,-8)$ and $E(-3,5)$.
10. Find the distance between points $C(0,0)$ and $Z(3,4)$.
11. Calculate the distance between points $W(-6,-5)$ and $K(7,9)$.
12. Determine the distance between points $F(-8,1)$ and $J(6,-6)$.

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Answer Key

1 $d = 4.2426$

2 $d = 10.1980$

3 $d = 13.0$

4 $d = 12.2066$

5 $d = 9.4868$

6 $d = 10.0$

7 $d = 8.0$

8 $d = 4.0$

9 $d = 13.9284$

10 $d = 5.0$

11 $d = 17.2046$

12 $d = 15.1327$