

Consider the two points (3, 5) (-3, 8).

1) Find the distance between the points.

2) Find the midpoint of the line segment connecting the two points.

Consider the two points (9.32, -8.66) (31.73, 102.15)

3) Find the distance between the points.

4) Find the midpoint of the line segment connecting the two points.

Find the domain for each of the following functions.

5)  $f(x) = x^2 + 3x - 6$

6)  $g(x) = \frac{3x+7}{x-7}$

7)  $h(x) = \frac{x^2+1}{x^2-36}$

8)  $s(x) = \sqrt{5-8x}$

9)  $q(x) = \sqrt{x+5}$

10)  $k(x) = \frac{x^4}{\sqrt{2x+1}}$

11) Find the equation of the line through the points (2.3, 104.5) (4.7, 198.2).