

Find the domain of the following.

1.  $f(x) = \sqrt{x-2}$

2.  $g(x) = \sqrt{x^2-9}$

3.  $h(x) = \frac{3}{x-4}$

4.  $r(x) = \frac{\sqrt{x^2-16}}{x+2}$

5. Find the equation of the line perpendicular to  $y = 3x - 7$  and passing through the point  $(2, -5)$ . Write your answer in General Form.

6. Find the equation of the line parallel to  $y = -2x + 5$  and passing through the point  $(-1, 4)$ . Write your answer in General Form.

Use your calculator to find ratios to the nearest ten-thousandths (.0001) and angles to the nearest minute.

7.  $\sin 25^\circ =$

8.  $\cos 36^\circ 18' =$

9.  $\cot 47^\circ =$

10.  $\sec 78^\circ 12' =$

11.  $\tan 110^\circ 55' =$

12.  $\sin A = .2135$

13.  $\cos A = .1382$

14.  $\tan A = 2.1387$

15.  $\csc A = 5.9136$